

APPENDIXES

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APPENDIX A: The Seven Basic Tables, 1997

Appendix A includes the following seven tables:

- A-1 Number of Doctorate Recipients, by Gender and Subfield, 1997
- A-2 Number of Doctorate Recipients, by Citizenship, Race/Ethnicity, and Subfield, 1997
- A-3 Statistical Profile of Doctorate Recipients, by Major Field, 1997
- A-4 Statistical Profile of Doctorate Recipients, by Race/Ethnicity and Citizenship, 1997
- A-5 Sources of Graduate School Support for Doctorate Recipients, by Broad Field and Gender, 1997
- A-6 State of Doctoral Institution of Doctorate Recipients, by Broad Field and Gender, 1997
- A-7 Institutions Granting Doctorates, by Major Field, 1997

TABLE A-1 and TABLE A-2: Tables A-1 and A-2 display data for the most recent year by subfield of doctorate. Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates (SED). The “general” field categories—e.g., “chemistry, general”—include individuals who either received the doctorate in the general subject area or did not indicate a particular specialty field. The “other” field categories—e.g., “chemistry, other”—include individuals whose specified doctoral discipline was not among the specialty fields listed.

Table A-1 presents data by doctoral specialty and gender. Table A-2 displays doctoral specialty by citizenship and race/ethnicity. For a detailed description of the racial/ethnic variable, see the explanatory note for Table A-4.

TABLE A-3: Table A-3 is composed of three 2-page tables. The first table includes data on *all* research doctorate recipients from the most recent year; the other two tables present the same data by gender. Field groupings may differ from those in reports published by federal sponsors of the SED. Terms requiring definition are as follows:

Percentage with Master's: The percentage of doctorate recipients in a field who received a master's degree in any field before earning the doctorate.

Median Age at Doctorate: One-half received the doctorate at or before this age. A recipient's age is obtained by subtracting the month/year of birth from the month/year of doctorate. (See note on next page.)

Median Time Lapse: “Total Time” refers to the total calendar time elapsed between the month/year of baccalaureate and the month/year of doctorate. “Registered Time” refers to the actual time in attendance at colleges and universities between receipt of the baccalaureate and the doctorate. Enrollment includes years of attendance not related to a recipient's doctoral program.

NOTE about medians: *The method of computing medians has been revised. Beginning with Summary Report 1994, months (of birth, baccalaureate, and doctorate) are included in the calculations; medians presented in earlier reports were based only on years. Some medians would be the same regardless of the method of computation, but the new method generally computes slightly different results than are obtained by the old method. While variation is small (usually one or two decimal places), the reader should consider these differences when comparing medians presented in this report with those in earlier reports.*

Postgraduation Plans: Each year's doctorate recipients provide information on post-graduation employment or study plans in response to items B1 through B9 on the survey form. Since the questionnaire is filled out around the time the doctorate is awarded, a recipient's plans are subject to change. However, comparisons with the longitudinal Survey of Doctorate Recipients (SDR) have shown SED data to be a reasonable indicator of actual employment status in the year following the doctorate, although results vary by sector. (The SDR is a follow-up employment survey of a sample of doctorate recipients in science, engineering, and, until 1995, humanities fields.)

In Table A-3 the postgraduation plans of doctorate recipients are grouped as follows: "Postdoctoral Study Plans" (fellowship, research associateship, traineeship, other), "Planned Employment after Doctorate" (educational institution, industry, etc.), and "Postdoctoral Plans Unknown." These categories include recipients who were still negotiating or seeking positions at the time of survey completion, as well as those whose plans were definite. The sum of these lines equals 100 percent for each column, with allowance for rounding: for example, 19.5 percent of all engineers had postdoctoral study plans, 70.8 percent planned to be employed, and 9.6 percent did not report their post-graduation plans, totaling 100 percent. The study and employment rows are further subdivided. The data on study plans show that 6.1 percent of all engineers planned to pursue postdoctoral fellowships; 12.3 percent, research associateships; 0.8 percent, traineeships; and 0.3 percent, some other form of postdoctoral study. These percentages sum to 19.5 percent, the proportion of engineers who reported plans for postdoctoral study. The employment row is similarly subdivided by type of employer. The percentages for these rows add to 70.8 percent—the proportion of engineering Ph.D.s who planned employment. The category for educational institutions includes elementary and secondary schools as well as colleges and universities, and the category for government includes military service.

The four lines of data beginning with "Definite Postdoctoral Study" distinguish between individuals who had definite postgraduation plans at the time of survey completion (item B1: "Am returning to, or continuing in, predoctoral employment" or "Have signed contract or made definite commitment") and those who were still seeking employment or postdoctoral study (item B1: "Am negotiating with one or more specific organizations," "Am seeking position but have no specific prospects," or "Other"). These four lines, when added to the prior line, "Postdoctoral Plans Unknown," total 100 percent with allowance for rounding. The two lines "Definite Postdoctoral Study" and "Seeking Postdoctoral Study" add to give the percentage for "Postdoctoral Study Plans"; the two lines "Definite Employment" and "Seeking Employment" add to give the percentage for "Planned Employment After Doctorate."

Percentages showing the distribution of doctorate recipients by postdoctoral work activity and region of employment are based only on the number of recipients who had *definite employment* commitments at the time they completed the questionnaire. These percentages exclude recipients who planned postdoctoral study (as described above) and recipients who were still *seeking* employment at the time they completed the questionnaire. (Note that the rows on specific postdoctoral study and employment plans discussed earlier include individuals whose plans were *not definite*.) Revisions to the questionnaire format beginning in 1990 resulted in higher rates of nonresponse to the item on work activity through 1993, when the rate was 15.1 percent. The questionnaire was revised again in 1994, and nonresponse subsequently dropped to 11.9 percent in 1994 and 10.7 in 1995. A final revision in 1995 dropped the nonresponse for this item to just 3.4 percent in 1997.

The U.S. regions of employment shown in Table A-3 include the following states and territories:

<i>New England:</i>	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
<i>Middle Atlantic:</i>	New Jersey, New York, Pennsylvania
<i>East North Central:</i>	Illinois, Indiana, Michigan, Ohio, Wisconsin
<i>West North Central:</i>	Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota
<i>South Atlantic:</i>	Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, West Virginia
<i>East South Central:</i>	Alabama, Kentucky, Mississippi, Tennessee
<i>West South Central:</i>	Arkansas, Louisiana, Oklahoma, Texas
<i>Mountain:</i>	Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming
<i>Pacific & Insular:</i>	Alaska, California, Hawaii, Oregon, Washington, American Samoa, Guam, Puerto Rico, Trust Territory, Virgin Islands

TABLE A-4: Table A-4 contains data by race/ethnicity and citizenship for selected variables included in Tables A-3 and A-5. Field groupings may differ from those in reports published by federal sponsors of the SED.

The racial/ethnic question has undergone several revisions over the years. In 1977 it was modified to correspond to a standard question format recommended by the Federal Interagency Committee on Education and adopted by the Office of Management and Budget (OMB) for use in federally sponsored surveys; an explanation of the effect of these changes is detailed on page 13 of *Summary Report 1977*. (Note: Changes in the OMB guidelines prompted the moving of persons having origins in the Indian subcontinent from the white category to the Asian category.) In 1980 the item was further revised in two ways: (1) the Hispanic category was subdivided into Puerto Rican, Mexican American, and other Hispanic to provide more detail for users of the

racial/ethnic data, and (2) respondents were asked to check only one racial category. (Before 1980 doctorate recipients could check more than one category to indicate their race.) The item was modified again in 1982 to separate the questions on race and ethnicity. Since then respondents have been asked to first check one of the four racial group categories (American Indian, Asian, black, or white) and then indicate whether or not they are Hispanic. In Table A-4, Ph.D.s who reported Hispanic heritage, regardless of racial designation, are included in one of three Hispanic groups: Puerto Rican, Mexican American, or other Hispanic. The remaining survey respondents are then counted in the respective racial groups. (Note: Doctorate recipients who checked the category “American Indian or Alaskan Native” are identified as American Indian in this report.)

NOTE about median age and time lapse (to doctorate): *The method of computing medians has been revised. Beginning with Summary Report 1994, months (of birth, baccalaureate, and doctorate) are included in the calculations; medians presented in earlier reports were based only on years. Some medians would be the same regardless of the method of computation, but the new method generally computes slightly different results. While variation is small (usually one or two decimal places), the reader should consider these differences when comparing medians presented in this report with those in earlier reports. See explanatory information on Table A-3 for further description.*

In the section of “Graduate School Support” a recipient counts in more than one category if support was received from multiple sources. Because a student counts more than once for sources of support, the vertical percentages sum to more than 100 percent. See the explanatory note on Appendix Table A-5 for further detail. (Data on the *primary* source of support for doctorate recipients are presented in the body of the report.)

The other sections in Table A-4 correspond to many of those in Appendix Table A-3. The reader is referred to the explanatory note on Table A-3 for additional information.

TABLE A-5: Table A-5 displays data reported in item A11 on sources of financial support received during graduate school, by broad field and gender of recipient. Field groupings may differ from those in reports published by federal sponsors of the SED.

A recipient counts in more than one category in Table A-5 if support was received from multiple sources. Because a student counts once for each of his/her sources of support, the vertical percentages sum to more than 100 percent. (Data on the *primary* source of support for doctorate recipients are presented in the body of the report.)

Beginning with *Summary Report 1990*, federal research assistantships (RAs) have been aggregated with university RAs and shown under “University Research Assistant” in Table A-5. (Focus groups of doctoral candidates have indicated uncertainty as to the source of their RA funding; it is therefore likely that some RAs have incorrectly identified support provided by the federal government as university rather than federal.) The reader is advised *not* to compare sources of support data presented in the 1990-1997 *Summary Reports* with data in earlier reports

because percentages appear higher for university support and lower for federal support in tables where all RAs are aggregated as “University Research Assistants.”

The data in Table A-5 should be interpreted as follows: 448 male doctorate recipients in the physical sciences in 1997 reported financial support from federal fellowships or traineeships during graduate school. This number is 9.5 percent of the male physical sciences Ph.D.s who answered the question on sources of support, and 17.4 percent of all males in *any* field who reported federal fellowship or traineeship support.

TABLE A-6: Table A-6 shows, by broad field and gender, the number of persons receiving a doctorate in the most recent year from institutions in each of the 50 states, the District of Columbia, and Puerto Rico. Field groupings may differ from those in reports published by federal sponsors of the SED. See inside the back cover for a description of field groupings as reported in this table; see the questionnaire’s Specialties List at the back of the report for the names and codes of the subfields included.

TABLE A-7: Table A-7 displays data by doctorate-granting institution and major field. It includes all institutions in the United States (the 50 states, the District of Columbia, and Puerto Rico) that awarded doctoral degrees in the most recent year. Field groupings may differ from those in reports published by federal sponsors of the SED and from departmental designations at institutions.

APPENDIX TABLE A-1 Number of Doctorate Recipients, by Sex and Subfield, 1997

Subfield of Doctorate	Number of Doctorates			Subfield of Doctorate	Number of Doctorates		
	Total*	Men	Women		Total*	Men	Women
TOTAL ALL FIELDS	42,705	24,999	17,322	Engineering Science	46	38	8
PHYSICAL SCIENCES	6,574	5,088	1,441	Environmental Health Engineering	62	52	10
MATHEMATICS	1,112	845	260	Industrial/Manufacturing	241	202	36
Applied Mathematics	241	186	54	Materials Science	477	379	96
Algebra	79	58	21	Mechanical	915	831	81
Analysis & Functional Analysis	103	90	13	Metallurgical	56	54	2
Geometry	70	57	13	Mining & Mineral	33	30	3
Logic	23	18	5	Nuclear	99	90	8
Number Theory	46	35	11	Ocean	34	28	5
Mathematical Statistics	182	134	46	Operations Research	75	59	16
Topology	62	48	14	Petroleum	51	48	3
Computing Theory & Practice	14	13	1	Polymer/Plastics	54	41	13
Operations Research	20	15	5	Systems	49	39	10
Mathematics, General	143	98	41	Engineering, General	50	39	3
Mathematics, Other	129	93	36	Engineering, Other	151	122	28
COMPUTER SCIENCE	889	733	144	LIFE SCIENCES	8,213	4,487	3,669
Computer Science	812	678	127	BIOLOGICAL SCIENCES	5,717	3,220	2,463
Information Sciences & Systems	77	55	17	Biochemistry	821	454	360
PHYSICS & ASTRONOMY	1,576	1,345	220	Biomedical Sciences	158	90	62
Astronomy	72	55	17	Biophysics	148	107	41
Astrophysics	125	107	18	Biotechnology Research	11	8	3
Acoustics	19	15	4	Bacteriology	13	12	1
Chemical & Atomic/Molecular	105	94	11	Plant Genetics	29	18	11
Elementary Particles	170	149	21	Plant Pathology	33	23	8
Fluids	24	24	0	Plant Physiology	46	28	18
Nuclear	105	93	11	Botany, Other	91	60	31
Optics	123	107	16	Anatomy	50	31	19
Plasma & High-Temperature	39	37	2	Biometrics and Biostatistics	85	39	45
Polymer	19	12	7	Cell Biology	249	136	113
Solid State & Low-Temperature	327	277	50	Ecology	250	144	105
Physics, General	246	205	31	Developmental Biology/Embryology	114	53	61
Physics, Other	202	170	32	Endocrinology	17	8	9
CHEMISTRY	2,115	1,500	605	Entomology	122	81	40
Analytical	351	244	106	Biological Immunology	211	119	92
Inorganic	276	195	81	Molecular Biology	768	437	329
Nuclear	8	8	0	Microbiology	407	224	180
Organic	567	421	145	Neuroscience	432	244	186
Medicinal/Pharmaceutical	107	64	43	Nutritional Sciences	123	32	91
Physical	333	242	90	Parasitology	17	7	10
Polymer	110	85	25	Toxicology	180	100	80
Theoretical	48	37	11	Human & Animal Genetics	213	110	102
Chemistry, General	231	156	69	Human & Animal Pathology	106	64	42
Chemistry, Other	84	48	35	Human & Animal Pharmacology	296	155	141
EARTH, ATMOS., & MARINE SCI.	882	665	212	Human & Animal Physiology	225	143	82
Atmospheric Physics & Chemistry	43	34	9	Zoology, Other	96	61	35
Atmospheric Dynamics	25	20	5	Biological Sciences, General	193	110	80
Meteorology	28	25	3	Biological Sciences, Other	213	122	86
Atmos. Sci./Meteorology, General	36	31	5	HEALTH SCIENCES	1,394	462	916
Atmos. Sci./Meteorology, Other	15	13	2	Speech-Lang. Pathology & Audiology	83	11	72
Geology	162	121	38	Environmental Health	67	37	28
Geochemistry	50	35	15	Health Systems/Services Admin.	66	35	29
Geophysics & Seismology	105	87	18	Public Health	139	52	84
Paleontology	23	12	11	Epidemiology	152	56	94
Mineralogy, Petrology	18	12	6	Exercise Physiology/Sci., Kinesiology	103	63	40
Stratigraphy, Sedimentation	23	16	7	Nursing	413	13	398
Geomorphology & Glacial Geology	26	22	4	Pharmacy	142	86	56
Geological & Related Sci., General	15	11	4	Rehabilitation/Therapeutic Services	28	14	14
Geological & Related Sci., Other	17	11	6	Veterinary Medicine	47	28	19
Environmental Science	92	66	26	Health Sciences, General	45	22	21
Hydrology & Water Resources	43	35	8	Health Sciences, Other	109	45	61
Oceanography	112	81	30	AGRICULTURAL SCIENCES	1,102	805	290
Marine Sciences	29	22	7	Agricultural Economics	135	100	35
Misc. Physical Sciences, Other	20	11	8	Agricultural Business & Management	1	1	0
ENGINEERING	6,052	5,264	747	Animal Breeding & Genetics	24	20	4
Aerospace, Aeronautic., Astronautic.	272	255	16	Animal Nutrition	55	40	14
Agricultural	78	64	12	Dairy Science	14	9	5
Bioengineering & Biomedical	205	150	52	Poultry Science	9	7	2
Ceramic Sciences	40	32	8	Fisheries Science & Management	43	38	5
Chemical	659	549	107	Animal Sciences, Other	59	45	13
Civil	591	519	70	Agronomy & Crop Science	76	66	10
Communications	32	29	3	Plant Breeding & Genetics	67	57	9
Computer	219	198	21	Plant Pathology	64	38	26
Electrical, Electronics	1,444	1,308	126	Plant Sciences, Other	19	13	6
Engineering Mechanics	95	88	6	Food Engineering	11	8	3
Engineering Physics	24	20	4	Food Sciences, Other	172	93	77
				Soil Chemistry/Microbiology	32	23	9
				Soil Sciences, Other	55	47	8
				Horticulture Science	44	28	16
				Forest Biology	22	21	1
				Forest Engineering	13	9	2
				Forest Management	21	17	4

APPENDIX TABLE A-1 Number of Doctorate Recipients, by Sex and Subfield, 1997

Subfield of Doctorate	Number of Doctorates			Subfield of Doctorate	Number of Doctorates		
	Total*	Men	Women		Total*	Men	Women
Wood Sci. & Pulp/Paper Tech.	25	23	2	Humanities, General	23	7	16
Conservation/Renewable Nat. Res.	17	10	7	Humanities, Other	87	42	44
Forestry & Related Sci., Other	52	37	15	EDUCATION	6,497	2,367	4,079
Wildlife/Range Management	48	36	12	Curriculum & Instruction	904	278	623
Agricultural Sciences, General	8	7	1	Educational Admin. & Supervision	1,020	427	585
Agricultural Sciences, Other	16	12	4	Educational Leadership	1,036	423	607
SOCIAL SCIENCES (INCL. PSYCH.)	6,917	3,241	3,613	Educ./Instruct. Media Design	92	38	53
Anthropology	430	186	240	Educ. Stat./Research Methods	58	18	40
Area Studies	10	5	5	Educ. Assess., Test., & Meas.	29	12	17
Criminology	50	24	25	Educational Psychology	356	114	241
Demography/Population Studies	24	8	16	School Psychology	115	35	80
Economics	982	737	227	Social/Phil. Found. Of Educ.	135	51	82
Econometrics	29	24	4	Special Education	263	47	216
Geography	145	94	51	Counseling Educ./Couns. & Guidance	203	72	131
International Relations/Affairs	84	65	18	Higher Educ./Evaluation & Research	509	215	292
Political Science and Government	654	463	190	Pre-elementary/Early Childhood	42	6	36
Public Policy Analysis	128	76	52	Elementary Education	54	9	45
Sociology	571	254	315	Secondary Education	25	11	14
Statistics	56	33	23	Adult & Continuing Education	161	64	97
Urban Affairs/Studies	91	58	29	TEACHING FIELDS	894	346	545
Social Sciences, General	20	11	9	Agricultural Education	38	26	11
Social Sciences, Other	154	67	85	Art Education	29	8	20
PSYCHOLOGY	3,489	1,136	2,324	Business Education	22	11	11
Clinical	1,261	355	896	English Education	60	16	44
Cognitive & Psycholinguistics	162	87	75	Foreign Languages Education	45	12	33
Comparative	6	3	3	Health Education	59	16	42
Counseling	477	166	307	Home Economics Education	13	3	10
Developmental and Child	211	41	167	Technical/Industrial Arts Education	19	10	9
Human/Indv. & Family Development	123	24	99	Mathematics Education	88	37	51
Experimental	140	73	67	Music Education	98	46	52
Educational	60	14	44	Nursing Education	22	1	21
Family & Marriage Counseling	61	20	41	Physical Education and Coaching	108	52	56
Industrial & Organizational	184	81	103	Reading Education	68	10	58
Personality	25	13	12	Science Education	73	33	40
Physiological/Psychobiology	77	35	42	Social Science Education	27	12	15
Psychometrics	11	4	7	Technical Education	32	15	17
Quantitative	17	7	10	Trade & Industrial Education	16	8	8
School	84	18	66	Teacher Ed./Spec. Acad. & Voc., Other	77	30	47
Social	179	64	115	EDUCATION, GENERAL	317	116	181
Psychology, General	286	97	181	EDUCATION, OTHER	284	85	194
Psychology, Other	125	34	89	PROFESSIONAL/OTHER FIELDS	3,065	1,778	1,201
HUMANITIES	5,387	2,774	2,572	BUSINESS AND MANAGEMENT	1,221	841	370
History, American	371	238	133	Accounting	149	92	57
History, Asian	54	38	15	Banking/Financial Support Services	69	56	13
History, European	245	140	105	Business Admin. & Management	408	281	118
History/Philosophy of Sci. & Tech.	34	21	13	Business/Managerial Economics	48	37	11
History, General	79	49	27	International Business	39	33	6
History, Other	171	109	61	Mgmt. Info. Sys./Bus. Data Proc.	100	75	25
Classics	53	31	22	Marketing Management & Research	151	107	44
Comparative Literature	181	74	104	Operations Research	44	34	10
Linguistics	243	106	135	Organizational Behavior	122	62	60
Speech & Rhetorical Studies	132	59	73	Bus. Mgmt./Admin. Serv., General	27	22	5
Letters, General	23	7	16	Bus. Mgmt./Admin. Serv., Other	64	42	21
Letters, Other	60	25	35	COMMUNICATIONS	325	157	166
American Studies	80	34	46	Communications Research	51	18	32
Archeology	34	15	19	Mass Communications	114	70	44
Art History/Criticism/Conservation	188	56	132	Communications Theory	40	15	25
Music	728	413	308	Communications, General	71	36	34
Philosophy	458	322	119	Communications, Other	49	18	31
Religion	295	204	89	OTHER PROFESSIONAL FIELDS	756	414	336
Drama/Theater Arts	115	60	55	Architectural Environmental Design	65	42	21
LANGUAGE & LITERATURE	1,733	724	1,005	Home Economics	36	5	31
American	405	167	238	Law	26	17	8
English	675	294	381	Library Science	41	13	28
French	150	47	103	Parks/Recreation/Leisure/Fitness	20	11	9
German	83	35	47	Public Administration	95	65	29
Italian	23	5	18	Social Work	237	83	152
Spanish	249	110	139	Theology/Religious Education	176	141	35
Russian	39	15	24	Professional Fields, General	4	4	0
Slavic	9	2	7	Professional Fields, Other	56	33	23
Chinese	23	11	12	OTHER/UNKNOWN FIELDS	763	366	329
Japanese	19	10	9				
Hebrew	8	5	3				
Arabic	4	3	1				
Other Language & Literature	46	20	23				

*Total includes 384 doctorate recipients whose sex was unknown.

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See last page of report for a description of fields in this table. Refer also to the explanatory note about this table at the beginning of Appendix A.

APPENDIX TABLE A-2 Number of Doctorate Recipients by Citizenship, Race/Ethnicity, and Subfield, 1997

Subfield of Doctorate	Total Doctorates*	Non-U.S. Citizens Temp. Visas	U.S. Citizens and Non-U.S. with Permanent Visas								
			Total	American Indian	Asian	Black	White	Puerto Rican	Mexican Amer.	Other Hispanic	Unkn. Race
<u>TOTAL ALL FIELDS</u>	42,705	8,475	30,583	151	3,140	1,476	23,789	294	299	570	864
<u>PHYSICAL SCIENCES</u>	6,574	1,960	4,178	13	680	70	3,163	31	24	55	142
MATHEMATICS	1,112	418	614	1	99	7	470	2	3	11	21
Applied Mathematics	241	102	126	0	24	1	92	0	0	3	6
Algebra	79	23	55	0	8	1	46	0	0	0	0
Analysis & Functional Analysis	103	40	59	1	10	0	45	1	0	1	1
Geometry	70	34	35	0	7	1	25	1	0	0	1
Logic	23	5	18	0	1	1	12	0	0	2	2
Number Theory	46	20	22	0	3	0	19	0	0	0	0
Mathematical Statistics	182	74	98	0	25	1	69	0	0	1	2
Topology	62	27	35	0	2	1	29	0	0	0	3
Computing Theory & Practice	14	6	7	0	2	0	5	0	0	0	0
Operations Research	20	8	12	0	0	0	12	0	0	0	0
Mathematics, General	143	37	62	0	11	0	43	0	1	2	5
Mathematics, Other	129	42	85	0	6	1	73	0	2	2	1
COMPUTER SCIENCE	889	314	506	1	106	4	357	6	2	8	22
Computer Science	812	303	454	1	97	3	319	4	2	7	21
Information Sciences & Systems	77	11	52	0	9	1	38	2	0	1	1
PHYSICS & ASTRONOMY	1,576	453	1,032	3	168	17	781	7	6	12	38
Astronomy	72	10	58	1	1	1	46	0	0	2	7
Astrophysics	125	24	99	0	7	1	85	0	0	1	5
Acoustics	19	3	16	0	0	0	14	0	0	0	2
Chemical & Atomic/Molecular	105	38	64	0	17	2	40	0	1	1	3
Elementary Particle	170	64	103	0	23	0	73	3	2	1	1
Fluids	24	7	15	0	4	0	11	0	0	0	0
Nuclear	105	30	74	1	12	2	55	1	0	0	3
Optics	123	31	89	0	12	4	69	1	1	1	1
Plasma & High-Temperature	39	12	27	0	1	2	23	0	0	0	1
Polymer	19	9	10	0	2	0	8	0	0	0	0
Solid State & Low-Temperature	327	121	203	1	38	2	155	2	1	1	3
Physics, General	246	49	139	0	30	3	96	0	1	3	6
Physics, Other	202	55	135	0	21	0	106	0	0	2	6
CHEMISTRY	2,115	561	1,425	6	235	33	1,071	12	9	17	42
Analytical	351	90	253	3	43	7	196	0	1	1	2
Inorganic	276	61	208	0	23	4	164	4	2	5	6
Nuclear	8	3	5	0	1	0	4	0	0	0	0
Organic	567	158	397	0	72	10	295	3	4	4	9
Medicinal/Pharmaceutical	107	32	73	0	16	3	52	1	0	1	0
Physical	333	93	229	1	27	5	183	0	1	3	9
Polymer	110	41	65	1	22	0	39	0	0	1	2
Theoretical	48	22	26	0	4	0	20	0	0	1	1
Chemistry, General	231	36	116	1	14	3	82	4	0	1	11
Chemistry, Other	84	25	53	0	13	1	36	0	1	0	2
EARTH, ATMOS., & MARINE SCI.	882	214	601	2	72	9	484	4	4	7	19
Atmospheric Physics & Chem.	43	9	30	0	8	0	20	0	0	0	2
Atmospheric Dynamics	25	11	13	0	3	0	10	0	0	0	0
Meteorology	28	9	19	0	3	0	16	0	0	0	0
Atmos.Sci./Meteorology, General	36	10	25	0	4	0	20	0	0	0	1
Atmos.Sci./Meteorology, Other	15	2	12	0	1	0	11	0	0	0	0
Geology	162	30	121	0	9	2	105	1	1	1	2
Geochemistry	50	13	34	0	3	2	28	0	1	0	0
Geophysics & Seismology	105	35	63	0	15	0	45	0	1	0	2
Paleontology	23	3	20	0	1	1	16	0	0	0	2
Mineralogy, Petrology	18	5	12	0	2	0	8	1	0	1	0
Stratigraphy, Sedimentation	23	4	19	0	2	0	14	1	0	1	1
Geomorphology & Glacial Geol.	26	0	26	0	0	0	25	0	1	0	0
Geological & Related Sci., General	15	2	10	0	0	0	8	0	0	0	2
Geological & Related Sci., Other	17	5	12	0	0	0	10	0	0	1	1
Environmental Science	92	16	65	0	10	2	50	0	0	1	2
Hydrology & Water Resources	43	14	22	0	2	1	19	0	0	0	0
Oceanography	112	36	64	0	5	1	54	0	0	1	3
Marine Sciences	29	9	19	2	3	0	11	1	0	1	1
Misc. Physical Sciences, Other	20	1	15	0	1	0	14	0	0	0	0
<u>ENGINEERING</u>	<u>6,052</u>	<u>2,401</u>	<u>3,275</u>	<u>12</u>	<u>704</u>	<u>97</u>	<u>2,262</u>	<u>17</u>	<u>17</u>	<u>55</u>	<u>111</u>
Aerospace, Aeronautic., Astronautic.	272	95	166	0	16	2	138	0	1	3	6
Agricultural	78	31	38	0	4	0	29	1	0	1	3
Bioengineering & Biomedical	205	55	140	0	31	3	100	3	0	2	1
Ceramic Science	40	15	23	0	2	0	20	0	0	1	0
Chemical	659	261	371	2	64	14	269	1	3	3	15
Civil	591	270	287	1	65	9	195	2	0	5	10
Communications	32	16	16	0	4	0	10	0	0	1	1
Computer	219	89	122	1	33	3	79	0	1	0	5

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See last page of report for a description of fields in this table. Refer also to the explanatory note about this table at the beginning of Appendix A.

*Includes 3,647 individuals who did not report their citizenship at time of doctorate. See the "Important Notice" at the front of this report for discussion of item response rate issues.

APPENDIX TABLE A-2 Number of Doctorate Recipients by Citizenship, Race/Ethnicity, and Subfield, 1997

Subfield of Doctorate	Total Doctorates*	Non-U.S. Citizens Temp. Visas	Total	U.S. Citizens and Non-U.S. with Permanent Visas					Other His-panic	Unkn. Race	
				American Indian	Asian	Black	White	Puerto Rican	Mexican Amer.		
Electrical, Electronics	1,444	555	789	3	216	28	486	4	4	16	32
Engineering Mechanics	95	48	41	0	6	1	32	0	0	0	2
Engineering Physics	24	6	16	0	4	1	10	0	0	1	0
Engineering Science	46	22	23	0	4	1	18	0	0	0	0
Environmental Health Engineering	62	25	33	1	9	1	20	0	1	0	1
Industrial/Manufacturing	241	111	114	0	21	9	77	2	0	2	3
Materials Science	477	186	266	0	53	3	194	1	3	5	7
Mechanical	915	380	487	4	105	11	341	3	3	6	14
Metallurgical	56	29	25	0	4	1	20	0	0	0	0
Mining & Mineral	33	17	15	0	5	0	10	0	0	0	0
Nuclear	99	33	56	0	5	2	46	0	0	1	2
Ocean	34	13	16	0	5	0	11	0	0	0	0
Operations Research	75	24	48	0	14	0	32	0	0	1	1
Petroleum	51	32	14	0	2	2	9	0	0	0	1
Polymer/Plastics	54	31	20	0	7	0	13	0	0	0	0
Systems	49	11	36	0	4	2	29	0	0	0	1
Engineering, General	50	2	24	0	6	0	14	0	0	0	4
Engineering, Other	151	44	89	0	15	4	60	0	1	7	2
LIFE SCIENCES	8,213	1,858	5,836	18	873	191	4,414	45	51	102	142
BIOLOGICAL SCIENCES	5,717	1,214	4,200	9	717	108	3,120	34	42	66	104
Biochemistry	821	190	584	0	130	13	418	5	2	7	9
Biomedical Sciences	158	35	107	1	28	4	67	1	1	2	3
Biophysics	148	39	104	0	22	5	69	0	1	2	5
Biotechnology Research	11	5	5	0	2	0	3	0	0	0	0
Bacteriology	13	3	10	0	0	0	9	0	1	0	0
Plant Genetics	29	8	21	0	2	1	17	0	0	0	1
Plant Pathology	33	14	16	0	3	0	10	0	0	0	3
Plant Physiology	46	18	26	0	3	1	19	1	1	1	0
Botany, Other	91	15	68	0	4	1	60	0	0	1	2
Anatomy	50	8	34	0	6	0	25	1	0	1	1
Biometrics and Biostatistics	85	26	52	0	16	0	35	0	0	0	1
Cell Biology	249	43	199	2	31	3	151	1	4	4	3
Ecology	250	29	215	0	5	2	198	0	4	2	4
Developmental Biology/Embryology	114	25	88	0	16	3	64	0	2	1	2
Endocrinology	17	7	8	0	3	0	4	0	1	0	0
Entomology	122	40	71	0	8	1	55	1	2	1	3
Biological Immunology	211	44	163	0	34	3	113	1	3	3	6
Molecular Biology	768	194	554	2	126	11	391	3	4	8	9
Microbiology	407	95	287	0	45	5	212	6	5	3	11
Neuroscience	432	64	353	0	60	6	265	5	3	7	7
Nutritional Sciences	123	37	82	0	11	4	63	1	0	0	3
Parasitology	17	8	9	0	0	1	7	0	0	1	0
Toxicology	180	30	143	0	14	8	116	0	2	1	2
Human & Animal Genetics	213	43	160	0	20	3	129	1	0	3	4
Human & Animal Pathology	106	23	73	0	19	3	47	1	1	1	1
Human & Animal Pharmacology	296	54	229	1	47	18	152	1	2	3	5
Human & Animal Physiology	225	40	177	1	21	7	134	3	1	5	5
Zoology, Other	96	9	82	1	2	2	74	0	1	2	0
Biological Sciences, General	193	38	113	0	19	0	82	0	0	2	10
Biological Sciences, Other	213	30	167	1	20	3	131	2	1	5	4
HEALTH SCIENCES	1,394	252	1,009	5	86	55	817	7	7	15	17
Speech-Lang. Pathology & Audiology	83	12	68	0	5	5	53	0	1	1	3
Environmental Health	67	8	45	0	11	1	32	0	0	1	0
Health Systems/Services Admin.	66	11	38	0	3	2	33	0	0	0	0
Public Health	139	22	98	1	9	7	75	1	1	3	1
Epidemiology	152	23	112	0	10	7	90	1	0	2	2
Exercise Physiology/Sci., Kinesiology	103	21	78	0	1	3	72	1	1	0	0
Nursing	413	39	363	3	17	18	314	1	2	4	4
Pharmacy	142	78	59	0	16	2	35	2	1	0	3
Rehabilitation/Therapeutic Services	28	3	24	0	0	2	21	0	0	1	0
Veterinary Medicine	47	19	24	0	3	1	17	0	1	0	2
Health Sciences, General	45	5	27	1	4	4	15	1	0	1	1
Health Sciences, Other	109	11	73	0	7	3	60	0	0	2	1
AGRICULTURAL SCIENCES	1,102	392	627	4	70	28	477	4	2	21	21
Agricultural Economics	135	44	81	0	7	4	67	0	0	1	2
Agricultural Business & Management	1	1	0	0	0	0	0	0	0	0	0
Animal Breeding & Genetics	24	12	8	0	0	0	6	0	1	0	1
Animal Nutrition	55	17	34	0	0	2	30	0	0	2	0
Dairy Science	14	3	10	0	1	0	8	0	0	0	1
Poultry Science	9	4	5	0	0	0	5	0	0	0	0
Fisheries Science & Management	43	9	32	1	2	1	27	0	0	1	0
Animal Sciences, Other	59	20	34	0	6	2	22	1	1	0	2
Agronomy & Crop Science	76	30	38	1	4	2	29	0	0	1	1
Plant Breeding & Genetics	67	33	31	0	2	0	26	1	0	2	0
Plant Pathology	64	22	31	0	6	1	22	0	0	2	0
Plant Sciences, Other	19	5	12	0	0	0	12	0	0	0	0
Food Engineering	11	8	3	0	0	0	3	0	0	0	0
Food Sciences, Other	172	73	84	0	23	3	49	0	0	6	3
Soil Chemistry/Microbiology	32	11	21	0	1	2	18	0	0	0	0
Soil Sciences, Other	55	26	26	0	2	0	21	0	0	0	3

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-2 Number of Doctorate Recipients by Citizenship, Race/Ethnicity, and Subfield, 1997

Subfield of Doctorate	Total Doctorates*	Non-U.S. Citizens Temp. Visas	Total	U.S. Citizens and Non-U.S. with Permanent Visas					Other His-panic	Unkn. Race	
				American Indian	Asian	Black	White	Puerto Rican	Mexican Amer.		
Horticulture Science	44	17	25	0	3	2	17	1	0	1	1
Forest Biology	22	3	19	0	2	0	15	0	0	0	2
Forest Engineering	13	4	4	0	1	0	3	0	0	0	0
Forest Management	21	6	15	1	0	2	11	0	0	0	1
Wood Sci. & Pulp/Paper Tech.	25	10	14	0	2	0	10	0	0	2	0
Conservation/Renewable Nat. Res.	17	5	12	0	3	1	6	0	0	1	1
Forestry & Related Sci., Other	52	14	31	0	3	3	21	0	0	1	3
Wildlife/Range Management	48	8	40	1	0	0	38	0	0	1	0
Agricultural Sciences, General	8	5	3	0	1	1	1	0	0	0	0
Agricultural Sciences, Other	16	2	14	0	1	2	10	1	0	0	0
SOCIAL SCIENCES (INCL. PSYCH.)	6,917	897	5,349	28	322	287	4,319	71	71	110	141
Anthropology	430	54	348	3	12	11	276	4	9	3	30
Area Studies	10	2	8	0	0	2	6	0	0	0	0
Criminology	50	2	46	0	2	4	36	1	2	0	1
Demography/Population Studies	24	8	14	0	2	0	10	0	0	2	0
Economics	982	384	488	1	80	18	351	5	2	15	16
Econometrics	29	17	7	0	2	0	5	0	0	0	0
Geography	145	25	112	0	9	4	92	0	2	2	3
International Relations/Affairs	84	10	67	0	4	2	58	0	0	2	1
Political Science and Government	654	68	541	0	29	26	455	0	5	7	19
Public Policy Analysis	128	22	95	2	7	4	78	0	0	1	3
Sociology	571	91	438	4	28	42	329	2	3	12	18
Statistics	56	31	23	0	6	1	16	0	0	0	0
Urban Affairs/Studies	91	24	54	0	4	11	35	0	1	1	2
Social Sciences, General	20	7	13	0	0	0	12	1	0	0	0
Social Sciences, Other	154	25	119	1	9	10	96	0	0	1	2
PSYCHOLOGY	3,487	127	2,974	17	126	152	2,464	58	47	64	46
Clinical	1,261	19	1,127	9	45	61	921	23	24	28	16
Cognitive & Psycholinguistics	162	23	133	0	4	2	121	0	1	2	3
Comparative	6	2	3	0	2	0	1	0	0	0	0
Counseling	477	5	434	2	19	28	357	3	7	14	4
Developmental and Child	211	13	138	0	3	12	120	0	0	2	1
Human/Indv. & Family Development	123	11	105	0	5	9	87	1	0	1	2
Experimental	140	11	125	3	11	2	99	1	5	2	2
Educational	60	4	47	0	2	4	38	2	1	0	0
Family & Marriage Counseling	61	3	55	0	2	3	44	0	0	4	2
Industrial & Organizational	184	5	176	0	8	6	143	9	4	4	2
Personality	25	1	24	0	1	2	20	0	0	1	0
Physiological/Psychobiology	77	9	68	1	4	5	54	1	0	2	1
Psychometrics	11	3	8	0	0	0	7	0	0	0	1
Quantitative	17	2	15	0	1	0	14	0	0	0	0
School	84	1	79	0	2	4	71	0	0	0	2
Social	179	8	169	1	10	6	143	2	5	0	2
Psychology, General	286	1	163	1	4	5	130	14	0	3	6
Psychology, Other	125	6	107	0	5	3	94	2	0	1	2
HUMANITIES	5,387	544	4,445	21	205	152	3,717	50	36	120	144
History, American	371	13	356	2	5	13	314	0	5	3	14
History, Asian	54	12	41	0	14	0	25	0	0	0	2
History, European	245	13	230	2	4	3	213	0	1	1	6
History/Philosophy of Sci. & Tech.	34	1	32	0	2	3	25	0	0	0	2
History, General	79	4	49	0	2	2	35	2	0	0	8
History, Other	171	24	142	0	6	10	107	5	1	7	6
Classics	53	8	44	0	0	1	42	1	0	0	0
Comparative Literature	181	31	140	2	11	2	102	6	1	8	8
Linguistics	243	71	159	1	25	3	116	3	1	3	7
Speech & Rhetorical Studies	132	12	118	1	1	8	99	2	0	1	6
Letters, General	23	1	20	0	1	2	17	0	0	0	0
Letters, Other	60	2	53	0	2	1	47	0	0	0	3
American Studies	80	1	77	4	3	7	61	0	0	1	1
Archeology	34	5	28	0	2	0	24	0	0	0	2
Art History/Criticism/Conservation	188	11	162	0	8	7	130	1	1	3	12
Music	728	74	562	3	36	20	478	1	5	9	10
Philosophy	458	49	307	2	10	9	264	9	3	3	7
Religion	295	18	264	0	15	10	229	2	1	3	4
Drama/Theater Arts	115	5	107	0	6	4	95	0	1	1	0
LANGUAGE & LITERATURE	1,733	183	1,457	4	51	36	1,218	18	15	75	40
American	405	25	374	0	6	21	332	1	3	5	6
English	675	44	590	3	25	8	523	1	3	10	44
French	150	22	121	0	1	3	108	0	1	2	6
German	83	11	67	0	0	1	64	0	0	0	2
Italian	23	7	13	0	2	0	11	0	0	0	0
Spanish	249	50	182	1	4	0	91	16	8	56	6
Russian	39	4	34	0	1	0	33	0	0	0	0
Slavic	9	1	6	0	0	0	5	0	0	0	1
Chinese	23	3	18	0	5	0	12	0	0	0	0
Japanese	19	4	15	0	6	0	9	0	0	0	0
Hebrew	8	2	6	0	0	0	6	0	0	0	0
Arabic	4	1	3	0	0	1	2	0	0	0	0
Other Language & Literature	46	9	28	0	1	2	22	0	0	2	1

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Subfield of Doctorate	Total Doctorates*	Non-U.S. Citizens Temp. Visas	Total	U.S. Citizens and Non-U.S. with Permanent Visas					Other His-panic	Unkn. Race	
				American Indian	Asian	Black	White	Puerto Rican	Mexican Amer.		
Humanities, General	23	1	19	0	0	3	14	0	0	0	2
Humanities, Other	87	5	78	0	1	8	62	0	1	2	4
EDUCATION	6,497	365	5,531	48	176	553	4,417	69	87	96	85
Curriculum & Instruction	904	51	810	11	21	71	646	25	8	16	12
Educational Admin. & Supervision	1,020	25	921	6	10	126	732	9	18	11	9
Educational Leadership	1,036	16	902	7	21	102	715	4	20	18	15
Educ./Instruct. Media Design	92	10	79	0	7	8	62	1	0	0	1
Educ. Stat./Research Methods	58	9	49	1	5	3	38	1	0	1	0
Educ. Assess., Test., & Meas.	29	5	22	0	2	1	17	0	0	2	0
Educational Psychology	356	34	310	4	20	23	246	2	5	2	8
School Psychology	115	1	104	0	5	0	92	2	2	2	1
Social/Phil. Found. Of Educ.	135	14	116	0	5	20	83	1	1	3	3
Special Education	263	21	238	1	9	18	195	2	3	3	7
Counseling Educ./Couns. & Guidance	203	13	188	0	3	25	149	5	1	4	1
Higher Educ./Evaluation & Research	509	15	442	4	13	56	346	2	10	6	5
Pre-elementary/Early Childhood	42	5	36	1	2	1	32	0	0	0	0
Elementary Education	54	3	47	0	2	5	38	0	1	1	0
Secondary Education	25	0	25	0	0	0	21	1	1	0	2
Adult & Continuing Education	161	10	145	3	0	10	127	0	1	3	1
TEACHING FIELDS	894	111	752	6	34	47	630	8	5	15	7
Agricultural Education	38	7	26	0	0	1	23	0	1	1	0
Art Education	29	8	19	0	1	2	14	1	0	0	1
Business Education	22	2	20	0	1	2	16	1	0	0	0
English Education	60	6	53	0	2	2	43	3	1	2	0
Foreign Languages Education	45	14	29	1	9	1	15	2	0	1	0
Health Education	59	3	53	1	3	1	48	0	0	0	0
Home Economics Education	13	4	9	2	0	1	6	0	0	0	0
Technical/Industrial Arts Education	19	3	15	0	1	0	12	0	1	1	0
Mathematics Education	88	7	78	0	3	5	68	0	0	0	2
Music Education	98	10	86	1	2	9	73	0	0	1	0
Nursing Education	22	0	22	0	1	0	21	0	0	0	0
Physical Education and Coaching	108	16	90	1	0	2	83	0	1	3	0
Reading Education	68	2	66	0	1	10	52	1	0	1	1
Science Education	73	9	62	0	4	5	50	0	0	2	1
Social Science Education	27	6	20	0	2	4	11	0	1	1	1
Technical Education	32	4	27	0	0	0	26	0	0	1	0
Trade & Industrial Education	16	1	11	0	0	0	11	0	0	0	0
Teacher Ed./Spec. Acad. & Voc., Other	77	9	66	0	4	2	58	0	0	1	1
Education, General	317	5	108	1	2	14	74	4	3	3	7
Education, Other	284	17	237	3	15	23	174	2	8	6	6
PROFESSIONAL/OTHER FIELDS	3,065	450	1,969	11	180	126	1,497	11	13	32	99
BUSINESS AND MANAGEMENT	1,221	267	859	5	88	53	678	3	6	9	17
Accounting	149	25	118	3	6	5	100	0	1	1	2
Banking/Financial Support Services	69	19	50	0	9	1	39	0	0	0	1
Business Admin. & Management	408	59	281	0	22	20	228	0	3	3	5
Business/Managerial Economics	48	10	37	0	12	2	23	0	0	0	0
International Business	39	12	22	0	3	0	16	0	1	0	2
Mgmt. Info. Sys./Bus. Data Proc.	100	38	57	1	7	3	45	0	1	0	0
Marketing Management & Research	151	47	103	0	11	7	79	2	0	2	2
Operations Research	44	18	26	0	8	1	15	0	0	0	2
Organizational Behavior	122	15	106	1	4	11	83	1	0	3	3
Bus. Mgmt./Admin. Serv., General	27	7	18	0	1	2	15	0	0	0	0
Bus. Mgmt./Admin. Serv., Other	64	17	41	0	5	1	35	0	0	0	0
COMMUNICATIONS	325	46	253	0	11	16	211	2	1	6	6
Communications Research	51	7	42	0	3	3	36	0	0	0	0
Mass Communications	114	19	89	0	5	7	71	1	0	2	3
Communications Theory	40	4	35	0	1	2	31	0	0	1	0
Communications, General	71	9	48	0	0	0	42	1	0	3	2
Communications, Other	49	7	39	0	2	4	31	0	1	0	1
OTHER PROFESSIONAL FIELDS	756	130	576	4	36	44	462	5	3	10	12
Architectural Environmental Design	65	19	40	0	5	1	32	0	0	0	2
Home Economics	36	7	27	0	1	1	23	1	1	0	0
Law	26	11	11	0	1	3	6	0	0	0	1
Library Science	41	12	25	0	1	3	20	1	0	0	0
Parks/Recreation/Leisure/Fitness	20	6	13	1	2	0	9	0	0	0	1
Public Administration	95	17	67	0	2	4	56	0	0	4	1
Social Work	237	19	201	2	13	18	158	3	2	2	3
Theology/Religious Education	176	24	149	1	6	12	123	0	0	3	4
Professional Fields, General	4	0	4	0	0	0	4	0	0	0	0
Professional Fields, Other	56	15	39	0	5	2	31	0	0	1	0
OTHER/UNKNOWN FIELDS	763	7	281	2	45	13	146	1	3	7	64

APPENDIX TABLE A-3a Statistical Profile of Doctorate Recipients by Major Field, 1997 (Total All Doctorates)

	1997 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES	ENGINEERING	Biochemistry	Other Biosciences	Health Sciences	Agricultural Sciences	LIFE SCIENCES	
Number in Field	42,705*	1,576	2,115	882	1,112	889	6,574	6,052	821	4,896	1,394	1,102	8,213	
Men	%	58.5	85.3	70.9	75.4	76.0	82.5	77.4	87.0	55.3	56.5	33.1	73.0	54.6
Women	%	40.6	14.0	28.6	24.0	23.4	16.2	21.9	12.3	43.8	43.0	65.7	26.3	44.7
Unknown*	%	0.9	0.7	0.5	0.6	0.6	1.3	0.7	0.7	0.9	0.6	1.1	0.6	0.7
U.S. Citizenship	%	64.8	55.5	57.8	60.2	46.2	46.9	54.1	44.3	60.2	63.9	67.4	48.0	62.0
Non-U.S., Permanent Visa	%	6.8	10.0	9.6	7.9	9.0	10.0	9.4	9.8	11.0	9.9	5.0	8.9	9.1
Non-U.S., Temporary Visa	%	19.8	28.7	26.5	24.3	37.6	35.3	29.8	39.7	23.1	20.9	18.1	35.6	22.6
Unknown	%	8.5	5.8	6.1	7.6	7.2	7.8	6.6	6.2	5.7	5.2	9.5	7.5	6.3
Married	%	53.8	48.7	52.3	56.6	50.0	54.4	51.9	57.1	53.3	54.7	58.2	62.6	56.2
Not Married	%	34.8	43.1	39.2	34.5	41.5	35.3	39.4	35.7	39.0	38.1	30.3	28.2	35.5
Unknown	%	11.4	8.1	8.5	9.0	8.5	10.2	8.7	7.1	7.7	7.3	11.4	9.2	8.3
Median Age at Doct.	Yrs	33.6	30.2	29.6	33.2	31.3	32.0	30.8	31.3	30.2	31.4	38.6	34.2	32.3
Percent with Bacc. In Same Field as Doctorate	%	50.8	65.5	72.8	48.0	64.8	37.1	61.5	75.9	23.6	50.4	45.6	49.9	46.9
Percent with Masters	%	72.4	62.9	40.7	74.9	73.7	81.8	61.8	82.8	29.8	44.9	77.8	86.9	54.6
Median Time Lapse from Bacc. To Doct.														
Total Time Registered Time	Yrs	10.5 7.3	7.6 6.9	6.9 6.0	10.5 7.6	8.6 6.9	9.8 7.5	8.0 6.8	8.7 6.5	7.6 6.6	8.6 7.0	14.6 7.9	10.6 6.8	9.2 7.0
Postdoctoral Study Plans	%	22.9	48.2	48.8	40.7	26.0	13.5	38.9	19.5	73.7	62.6	16.8	30.2	51.6
Fellowship	%	12.3	21.0	22.4	17.2	12.2	5.2	17.3	6.1	46.9	39.7	10.0	10.2	31.4
Research Assoc.	%	9.1	25.9	25.3	22.4	11.4	7.5	20.3	12.3	21.3	18.4	5.5	19.1	16.6
Traineeship	%	0.7	0.8	0.4	0.7	1.5	0.7	0.8	0.8	0.9	1.7	0.6	0.6	1.3
Other Study	%	0.8	0.4	0.7	0.3	0.8	0.1	0.5	0.3	4.6	2.9	0.6	0.4	2.4
Planned Employment														
After Doctorate	%	63.6	42.8	41.4	48.6	62.3	75.1	50.8	70.8	17.9	28.5	69.2	56.4	38.1
Educ. Institution★	%	32.4	8.0	8.6	15.5	31.9	21.7	15.1	11.3	5.7	10.7	35.1	20.1	15.6
Industry/Business	%	16.7	25.1	26.8	14.9	19.9	45.4	26.1	47.5	6.6	6.1	13.6	19.0	9.2
Government	%	4.3	3.8	1.5	9.3	2.3	3.7	3.5	6.4	1.0	2.8	8.0	7.5	4.1
Nonprofit	%	3.1	0.8	0.7	1.8	1.1	1.0	1.0	1.3	0.1	1.4	5.7	2.0	2.1
Other & Unknown	%	7.0	5.0	3.9	7.1	7.1	3.3	5.1	4.4	4.5	7.5	7.0	7.9	7.2
Postdoc. Plans Unknown	%	13.5	9.1	9.8	10.7	11.7	11.4	10.3	9.6	8.4	8.9	14.0	13.3	10.3
Definite Postdoc. Study	%	16.5	36.9	38.0	28.0	18.0	9.6	29.2	12.2	56.2	48.5	11.9	18.3	39.0
Seeking Postdoc. Study	%	6.4	11.2	10.8	12.7	8.0	3.9	9.8	7.3	17.5	14.1	4.9	11.9	12.6
Definite Employment	%	41.6	25.7	26.5	32.5	39.7	56.1	33.4	46.6	9.3	18.1	49.4	33.9	24.7
Seeking Employment	%	21.9	17.1	14.9	16.1	22.6	19.0	17.4	24.2	8.6	10.4	19.8	22.5	13.4
Employment Commitments														
After Doctorate		17,775	405	561	287	442	499	2,194	2,823	76	888	689	374	2,027
Primary Activity+														
R & D	%	30.5	59.3	63.8	50.9	36.7	68.3	56.8	69.3	32.9	34.7	29.3	52.4	36.1
Teaching	%	37.0	16.3	19.4	19.9	42.5	18.4	23.3	11.3	15.8	23.4	39.5	22.5	28.4
Administration	%	11.9	3.7	2.7	4.5	0.7	0.8	2.3	2.1	1.3	3.5	9.1	2.4	5.1
Prof. Services	%	13.2	9.6	6.4	13.9	10.9	7.4	9.1	10.9	17.1	13.2	16.4	13.4	14.5
Other	%	3.3	6.2	3.7	5.9	2.0	3.2	4.0	4.0	9.2	4.7	1.2	5.6	3.8
Secondary Activity														
R & D	%	33.5	27.9	24.1	32.1	45.2	26.9	30.7	23.6	15.8	27.9	38.9	29.4	31.5
Teaching	%	17.3	5.9	6.6	14.3	14.5	20.0	12.1	12.6	11.8	17.2	18.3	17.6	17.5
Administration	%	13.8	16.0	22.1	14.6	5.9	12.4	14.5	18.9	14.5	11.7	15.5	19.0	14.5
Prof. Services	%	12.5	12.1	11.2	16.0	9.0	10.4	11.4	15.8	6.6	8.6	13.5	12.6	10.9
Other	%	3.7	2.7	4.3	2.8	2.3	3.4	3.2	4.0	7.9	3.4	3.0	4.0	3.6
No Secondary Activity	%	15.3	30.6	27.8	15.3	16.1	25.1	23.7	22.7	19.7	10.8	6.5	13.9	10.3
Activity(ies) Unknown	%	4.0	4.7	3.9	4.9	7.0	1.8	4.3	2.3	23.7	20.4	4.2	3.5	11.9
Region of Employment														
After Doctorate+														
New England	%	6.5	9.6	8.4	5.9	9.7	8.4	8.6	7.0	6.6	7.3	4.4	2.1	5.3
Middle Atlantic	%	13.8	13.1	18.9	8.4	18.8	17.4	16.1	12.6	21.1	13.4	10.4	6.4	11.4
East No. Central	%	13.4	8.1	16.0	5.6	13.6	10.6	11.5	11.9	14.5	11.7	14.4	9.9	12.4
West No. Central	%	6.8	5.7	5.9	3.8	6.8	3.0	5.1	3.7	13.2	6.1	7.8	9.9	7.6
South Atlantic	%	15.5	12.8	12.1	16.0	16.3	12.8	13.8	12.0	11.8	15.1	19.4	12.0	15.9
East So. Central	%	4.6	3.7	6.1	1.7	3.6	1.6	3.6	2.8	5.3	3.7	5.5	5.1	4.6
West So. Central	%	8.3	4.9	6.8	17.1	4.3	6.4	7.2	8.6	5.3	6.3	9.4	7.8	7.6
Mountain	%	5.5	6.9	3.0	12.5	4.5	3.6	5.4	5.1	5.3	5.2	5.4	5.9	5.4
Pacific & Insular	%	13.9	27.7	15.3	13.2	10.2	24.6	18.4	21.7	10.5	15.2	11.8	9.1	12.7
U.S., Region Unknown	%	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0
Foreign	%	10.2	6.4	6.6	13.6	10.2	9.8	8.9	12.9	2.6	12.5	10.9	29.4	14.7
Region Unknown	%	1.3	1.0	0.9	2.1	2.0	1.6	1.5	1.6	3.9	3.5	0.6	2.1	2.3

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See last page of report for a description of fields in this table. Physical Sciences includes Mathematics and Computer Sciences, as well as Physics/Astronomy, Chemistry, and Earth/Atmospheric/Marine Sciences. Refer also to the explanatory note for this table. Calculations in this table exclude 651 respondents with missing data for doctoral field.

*Includes 384 respondents not reporting sex. ★Includes 2-year, 4-year and foreign colleges and universities, medical schools, and elementary/secondary schools.

+Includes only recipients with definite employment plans.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-3a Statistical Profile of Doctorate Recipients by Major Field, 1997 (Total All Doctorates)

Psychology	Economics	Anthropology and Sociology	Political Sci./International Rel.	Other Social Sciences	SOCIAL SCI. INCL. PSYCH.	TOTAL SCIENCES & ENGINEERING	History	Eng. and Amer. Lang. And Lit.	Foreign Lang. and Lit.	Other Humanities	HUMANITIES	EDUCATION	Business and Management	Other Professional Fields	OTHER FIELDS	PROFESSIONAL/ OTHER FIELDS	TOTAL NONSCIENCES
3,489	1,011	1,001	738	678	6,917	27,756	954	1,080	653	2,700	5,387	6,497	1,221	1,081	112	2,414	14,298
32.6	75.3	44.0	71.5	55.5	46.9	65.1	62.4	42.7	40.3	53.9	51.5	36.4	68.9	52.8	42.0	60.4	46.2
66.6	22.8	55.4	28.2	43.5	52.2	34.1	37.1	57.3	59.1	44.9	47.7	62.8	30.3	46.4	43.8	38.2	53.0
0.8	1.9	0.6	0.3	1.0	0.9	0.7	0.5	0.0	0.6	1.2	0.8	0.8	0.8	0.7	14.3	1.4	0.9
82.7	59.1	72.7	75.7	64.1	72.5	58.9	84.6	86.8	61.7	73.1	76.5	82.6	63.5	72.4	20.5	65.5	77.4
2.6	6.4	5.8	6.6	7.4	4.8	8.2	4.5	2.5	13.8	6.1	6.0	2.6	6.9	4.3	2.7	5.5	4.4
3.6	26.9	14.5	10.6	21.5	13.0	25.6	7.0	6.4	17.5	10.9	10.1	5.6	21.9	16.3	3.6	18.5	9.5
11.1	7.7	7.0	7.0	7.1	9.7	7.2	3.9	4.4	7.0	9.9	7.4	9.3	7.8	7.0	73.2	10.5	8.8
44.6	57.0	50.7	56.5	57.5	49.2	53.7	56.4	51.0	48.4	49.2	50.7	60.6	63.1	57.5	13.4	58.3	56.5
38.9	34.9	40.5	36.3	33.2	37.9	37.1	37.7	40.4	41.5	37.7	38.7	27.6	26.5	33.4	8.9	28.7	32.0
16.5	8.1	8.8	7.2	9.3	12.9	9.3	5.9	8.6	10.1	13.1	10.6	11.8	10.5	9.1	77.7	13.0	11.5
32.6	35.5	35.4	33.7	36.2	33.4	31.9	35.1	34.7	35.2	35.5	35.2	44.0	35.7	38.9	37.7	37.2	39.2
57.8	47.8	73.4	52.2	19.6	55.2	58.7	54.9	61.5	0.0	48.0	46.1	34.1	31.7	29.5	0.9	29.3	37.8
72.6	81.7	83.8	78.6	86.4	76.2	67.8	84.7	86.0	82.5	79.8	82.2	86.8	79.9	89.1	32.1	81.8	84.2
9.1	11.7	11.6	10.4	12.5	10.0	9.0	11.6	11.3	11.0	12.0	11.7	20.0	12.4	15.1	11.7	13.7	15.0
7.2	7.3	8.5	8.0	7.9	7.5	7.0	9.0	8.5	8.4	8.6	8.6	8.4	7.6	8.4	7.5	8.0	8.4
24.2	5.6	14.3	8.1	9.4	17.0	33.0	6.7	5.1	5.5	5.9	5.8	3.8	2.6	4.1	2.7	3.3	4.4
17.8	2.7	8.7	5.3	5.1	11.7	17.7	4.9	3.9	3.4	3.4	3.7	1.7	0.9	1.6	0.9	1.2	2.4
4.2	2.3	4.8	1.6	3.8	3.8	13.3	1.0	0.6	1.1	1.4	1.1	1.4	1.2	1.5	1.8	1.4	1.3
1.7	0.3	0.3	0.3	0.1	1.0	1.0	0.2	0.1	0.6	0.4	0.3	0.3	0.3	0.3	0.0	0.3	0.3
0.5	0.4	0.5	0.9	0.3	0.5	1.0	0.5	0.6	0.5	0.7	0.6	0.4	0.2	0.7	0.0	0.4	0.5
58.6	83.7	75.3	80.5	78.3	68.4	55.8	83.5	83.7	81.6	78.8	81.0	81.6	85.3	84.9	20.5	82.1	81.5
20.9	53.3	49.7	49.9	40.4	32.9	18.8	60.2	65.0	66.9	55.7	59.7	62.2	63.8	53.4	7.1	56.5	60.3
13.9	11.4	6.3	7.0	13.0	12.5	22.4	5.0	5.3	3.8	7.2	6.0	5.3	13.4	8.4	2.7	10.7	6.5
6.1	7.3	4.2	6.4	8.1	6.7	5.1	3.9	0.8	0.9	0.9	1.4	3.7	2.1	6.2	2.7	4.0	2.9
8.8	2.1	4.9	5.3	7.4	6.8	2.8	2.5	2.1	0.9	5.3	3.6	3.4	1.7	10.5	3.6	5.8	3.9
8.9	9.6	10.3	11.9	9.4	9.6	6.7	11.9	10.5	9.0	9.7	10.2	7.0	4.2	6.4	4.5	5.2	7.9
17.2	10.7	10.4	11.4	12.2	14.6	11.2	9.7	11.2	12.9	15.4	13.2	14.6	12.1	11.0	76.8	14.6	14.1
17.2	4.3	9.0	5.0	6.6	11.9	24.1	4.6	2.9	3.4	3.1	3.4	2.2	1.6	2.2	1.8	1.9	2.6
7.0	1.3	5.3	3.1	2.8	5.1	8.9	2.1	2.2	2.1	2.7	2.4	1.5	1.0	1.9	0.9	1.4	1.8
37.7	58.9	44.6	45.1	48.5	43.5	36.2	45.1	44.0	48.5	44.9	45.2	59.2	64.5	58.8	12.5	59.6	54.0
20.9	24.8	30.8	35.4	29.8	25.0	19.6	38.5	39.7	33.1	33.9	35.8	22.4	20.7	26.1	8.0	22.5	27.5
1,315	1,122	446	333	329	3,008	10,052	430	475	317	1,213	2,435	3,847	788	636	14	1,438	7,720
17.5	28.1	27.6	21.0	31.3	26.8	47.2	9.5	3.2	6.9	8.1	7.2	5.5	25.9	12.6	28.6	20.0	8.8
19.8	50.5	55.4	58.0	39.2	33.6	24.0	73.7	77.7	82.6	71.1	74.3	40.9	55.1	52.0	21.4	53.4	53.8
4.7	8.1	5.8	6.6	10.9	5.7	3.8	5.3	6.9	2.8	4.6	5.0	38.4	6.0	12.3	7.1	8.8	22.4
50.9	8.6	5.4	4.8	10.0	26.9	16.0	4.4	5.1	2.5	8.2	6.2	10.8	7.4	18.1	35.7	12.4	9.6
3.8	2.3	2.0	6.0	4.6	3.7	3.9	4.4	3.2	2.5	4.0	3.7	1.8	2.7	2.4	7.1	2.6	2.6
28.3	39.8	49.3	53.5	43.2	37.5	30.9	59.3	52.6	63.4	45.6	51.7	24.0	49.7	41.0	28.6	45.7	36.8
21.3	21.4	18.8	16.2	17.0	21.2	16.1	11.2	8.4	8.5	13.4	11.4	21.6	26.0	21.7	21.4	24.1	18.8
16.1	10.9	8.5	8.7	10.6	12.5	15.1	5.6	13.1	8.8	11.8	10.6	14.0	7.0	12.6	21.4	9.6	12.1
12.8	11.5	8.3	5.4	12.5	10.6	12.3	5.3	6.7	5.7	7.7	6.8	18.1	6.0	12.4	0.0	8.8	12.8
4.1	2.3	2.9	3.0	3.3	3.3	3.5	5.6	4.0	1.9	8.0	6.0	3.1	2.0	2.0	7.1	2.1	3.8
14.2	11.8	8.3	9.6	9.4	11.7	17.1	10.5	11.4	9.1	9.5	10.0	17.0	6.2	7.7	21.4	7.0	12.9
3.2	2.4	3.8	3.6	4.0	3.2	5.0	2.6	3.8	2.5	4.1	3.6	2.3	3.0	2.5	0.0	2.8	2.8
6.3	7.4	8.5	10.5	9.7	7.7	7.2	7.4	7.2	6.9	8.3	7.8	4.5	4.3	4.1	0.0	4.2	5.5
18.3	12.1	11.0	12.3	15.2	15.0	13.8	16.3	16.6	17.4	13.9	15.3	12.9	13.5	13.7	7.1	13.5	13.8
15.1	10.1	11.7	14.2	14.9	13.5	12.4	14.2	15.4	13.9	15.0	14.8	14.7	15.1	15.1	14.3	15.1	14.8
6.5	2.7	9.2	6.6	6.4	6.2	5.5	6.3	4.4	6.6	9.9	7.8	9.9	5.2	7.5	0.0	6.2	8.5
16.7	17.8	13.7	18.4	16.4	16.6	14.6	17.4	18.9	13.9	12.4	14.7	18.5	15.8	15.9	7.1	15.7	16.8
4.3	2.1	4.0	4.5	1.2	3.5	3.6	2.6	4.8	5.0	4.2	4.1	7.0	6.5	5.7	0.0	6.1	5.9
8.7	3.4	5.8	5.7	6.1	6.7	7.5	7.0	8.8	8.5	8.1	8.1	9.3	10.9	11.3	14.3	11.1	9.3
5.5	3.1	8.1	3.0	5.2	5.1	5.2	5.3	4.4	6.9	5.5	5.5	6.7	4.3	4.6	14.3	4.5	5.9
14.1	8.2	13.2	12.7	10.0	12.2	16.3	15.8	12.2	10.4	11.1	12.0	10.6	10.5	7.7	21.4	9.4	10.8
0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1
3.0	32.8	13.5	11.7	14.0	12.5	12.3	7.2	6.7	9.8	10.1	8.9	4.7	12.7	13.7	0.0	13.0	7.5
1.4	0.3	1.3	0.3	0.9	1.0	1.5	0.5	0.4	0.6	1.4	0.9	1.2	1.0	0.8	21.4	1.1	1.1

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-3b Statistical Profile of Doctorate Recipients by Major Field, 1997 (Men)

	1997 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES	ENGINEERING	Biochemistry	Other Biosciences	Health Sciences	Agricultural Sciences	LIFE SCIENCES	
Total Men	24,999	1,345	1,500	665	845	733	5,088	5,264	454	2,766	462	805	4,487	
Men as a Percent of Total Doctorates	%	58.5	85.3	70.9	75.4	76.0	82.5	77.4	87.0	55.3	56.5	33.1	73.0	54.6
U.S. Citizenship	%	59.2	56.5	58.2	58.2	44.5	45.8	53.7	43.1	59.5	62.7	53.9	46.7	58.6
Non-U.S., Permanent Visa		7.3	9.2	8.3	7.7	7.8	9.8	8.6	9.4	10.6	9.0	7.4	8.8	9.0
Non-U.S., Temporary Visa		25.8	29.2	28.1	26.9	41.1	37.9	31.8	41.8	24.7	22.9	27.5	37.9	26.2
Unknown		7.7	5.1	5.4	7.2	6.6	6.4	5.9	5.7	5.3	5.4	11.3	6.6	6.2
Married	%	57.0	48.0	53.4	60.0	49.9	56.3	52.7	57.9	58.8	57.4	61.9	68.3	60.0
Not Married		33.2	44.5	38.9	32.6	42.5	35.1	39.6	35.5	34.1	35.2	26.6	23.7	32.2
Unknown		9.8	7.5	7.7	7.4	7.6	8.6	7.7	6.6	7.0	7.4	11.5	8.0	7.9
Median Age at Doct.	Yrs	33.0	30.3	29.8	33.3	31.3	31.9	30.9	31.6	30.5	31.8	34.3	34.5	32.3
Percent with Bacc. In Same Field as Doctorate	%	53.8	65.9	73.2	51.3	65.9	37.9	62.1	77.1	24.9	48.7	30.3	52.9	45.2
Percent with Masters	%	72.5	62.8	41.0	76.2	73.1	83.5	62.8	83.5	32.4	46.9	71.0	88.7	55.4
Median Time Lapse from Bacc. To Doct.														
Total Time Registered Time	Yrs	10.0 7.2	7.6 6.9	7.0 6.0	10.7 7.5	8.6 7.0	9.6 7.3	8.1 6.8	8.9 6.6	7.9 6.8	8.8 7.0	11.0 7.0	11.0 6.8	9.0 7.0
Postdoctoral Study Plans	%	24.9	49.1	51.1	40.0	26.5	13.4	39.6	19.7	74.0	62.2	24.2	30.7	53.8
Fellowship		12.2	21.3	23.5	15.9	12.2	4.6	17.3	6.0	45.8	38.3	11.9	9.8	31.2
Research Assoc.		11.0	26.6	26.6	22.9	11.5	7.9	20.9	12.7	22.7	18.3	10.4	19.8	18.2
Traineeship		0.8	0.7	0.4	0.9	1.8	0.7	0.8	0.8	0.9	2.1	0.9	0.7	1.6
Other Study		0.9	0.5	0.6	0.3	1.1	0.1	0.6	0.3	4.6	3.5	1.1	0.4	2.8
Planned Employment														
After Doctorate	%	63.0	42.5	39.7	50.4	63.0	76.9	51.1	71.0	18.5	29.4	61.5	56.5	36.4
Educ. Institution ★		28.2	7.4	7.1	15.2	31.0	19.5	14.0	10.9	5.7	10.9	24.7	20.1	13.5
Industry/Business		21.2	25.4	27.1	16.8	21.2	48.7	27.4	48.2	7.7	6.6	18.2	19.4	10.2
Government		5.0	3.9	1.5	9.8	2.7	4.5	3.8	6.7	1.1	3.3	9.3	8.2	4.5
Nonprofit		2.7	0.9	0.7	1.5	1.1	1.0	1.0	1.3	0.2	1.3	3.9	1.9	1.6
Other & Unknown		5.9	5.1	3.3	7.1	7.0	3.3	4.9	4.0	3.7	7.3	5.4	7.0	6.7
Postdoc. Plans Unknown	%	12.1	8.3	9.1	9.6	10.5	9.7	9.3	9.2	7.5	8.5	14.3	12.8	9.7
Definite Postdoc. Study	%	18.1	38.1	40.6	27.2	18.2	9.5	30.0	12.2	58.8	48.8	17.1	18.3	41.1
Seeking Postdoc. Study		6.9	11.1	10.5	12.8	8.3	3.8	9.6	7.6	15.2	13.3	7.1	12.4	12.7
Definite Employment		41.5	25.4	26.1	34.0	39.4	57.3	33.6	46.9	10.4	20.1	40.5	35.0	23.9
Seeking Employment		21.4	17.2	13.6	16.4	23.6	19.6	17.4	24.1	8.1	9.2	21.0	21.5	12.5
Employment Commitments														
After Doctorate		10,383	341	392	226	333	420	1,712	2,469	47	557	187	282	1,073
Primary Activity+														
R & D	%	38.8	60.7	65.8	55.8	38.7	71.7	59.6	69.9	38.3	37.0	39.0	52.5	41.5
Teaching		31.3	15.0	16.3	15.9	38.1	15.5	20.0	10.6	12.8	20.1	24.1	22.0	21.0
Administration		9.8	3.2	3.6	4.0	0.3	0.7	2.2	2.2	2.1	3.2	9.6	1.8	3.9
Prof. Services		12.2	9.7	6.4	14.2	12.3	7.4	9.5	10.9	17.0	14.4	18.7	14.9	15.4
Other		3.6	6.7	3.8	4.9	2.1	3.1	4.0	4.2	8.5	3.9	1.6	5.0	4.0
Secondary Activity														
R & D	%	31.6	27.0	23.0	28.3	41.1	24.8	28.4	22.8	19.1	26.9	32.6	30.5	28.5
Teaching		17.7	5.6	7.1	13.7	16.8	19.8	12.7	12.6	10.6	17.1	21.9	17.4	17.7
Administration		15.0	17.3	23.5	17.7	6.3	13.1	15.6	20.0	17.0	12.7	19.3	19.9	15.9
Prof. Services		12.5	12.9	13.0	16.8	9.3	11.0	12.3	16.3	10.6	8.1	11.2	12.8	10.0
Other		3.6	2.6	4.8	3.1	2.4	3.8	3.4	3.9	10.6	3.6	2.1	2.8	3.4
No Secondary Activity		15.4	30.2	24.5	15.0	15.9	26.0	23.1	22.2	10.6	10.2	6.4	13.1	10.3
Activity(ies) Unknown	%													
Region of Employment														
After Doctorate+														
New England	%	6.5	9.1	9.2	5.8	8.7	7.9	8.3	7.0	8.5	7.9	4.3	1.1	5.5
Middle Atlantic		13.1	12.6	17.1	8.0	18.9	16.4	15.2	12.2	23.4	12.7	11.2	6.0	11.2
East No. Central		12.7	8.2	16.6	4.9	13.2	11.2	11.4	12.2	8.5	11.8	10.2	9.9	10.9
West No. Central		6.1	5.0	4.8	2.7	6.6	3.1	4.5	3.5	12.8	5.6	8.0	10.6	7.6
South Atlantic		14.0	13.2	11.5	13.7	15.3	12.6	13.1	11.6	12.8	13.8	20.3	10.6	14.1
East So. Central		4.2	3.5	5.6	2.2	3.3	1.7	3.3	2.6	6.4	4.5	7.0	3.9	4.8
West So. Central		8.5	5.3	7.4	18.6	3.9	6.2	7.5	8.8	6.4	6.3	12.3	8.5	7.9
Mountain		5.3	7.6	3.3	13.7	4.5	3.6	5.8	5.0	2.1	4.1	3.2	6.4	4.5
Pacific & Insular		15.0	28.4	16.6	12.8	11.4	26.4	19.9	21.8	12.8	15.3	10.2	8.9	12.6
U.S., Region Unknown		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.1
Foreign		13.0	5.9	7.1	15.5	12.3	9.5	9.6	13.8	2.1	13.8	12.8	31.2	17.7
Region Unknown		1.5	1.2	0.8	2.2	1.8	1.4	1.4	1.4	4.3	4.1	0.5	2.5	3.1

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See last page of report for a description of fields in this table. Physical Sciences includes Mathematics and Computer Sciences, as well as Physics/Astronomy, Chemistry, and Earth/Atmospheric/Marine Sciences. Refer also to the explanatory note for this table.

*Includes 2-year, 4-year and foreign colleges and universities, medical schools, and elementary/secondary schools.

+Includes only recipients with definite employment plans.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-3b Statistical Profile of Doctorate Recipients by Major Field, 1997 (Men)

Psychology	Economics	Anthropology and Sociology	Political Sci / International Rel.	Other Social Sciences	SOCIAL SCI. INCL. PSYCH.	TOTAL SCIENCE & ENGINEERING	History	Engl. And Amer. Lang. and Lit.	Foreign Lang. and Lit.	Other Humanities	HUMANITIES	EDUCATION	Business and Management	Other Professional Fields	Other Fields	PROFIONAL/ OTHER FIELDS	TOTAL NONSCIENCES
1,136	761	440	528	376	3,241	18,080	595	461	263	1,455	2,774	2,367	841	571	47	1,459	6,600
32.6	75.3	44.0	71.5	55.3	46.9	65.1	62.4	42.7	40.3	53.9	51.5	36.4	68.9	52.8	42.0	60.4	46.2
83.1	40.1	66.4	73.9	57.4	66.2	54.1	86.9	84.4	62.7	72.5	76.6	79.9	57.0	68.3	19.1	60.2	74.2
2.4	7.1	7.5	6.3	7.4	5.4	8.3	3.7	2.2	11.8	5.8	5.3	3.2	7.6	4.4	6.4	6.3	4.8
4.8	42.2	19.1	13.1	28.2	19.6	31.1	6.6	8.5	19.4	11.6	10.7	7.6	27.7	20.0	2.1	23.9	12.5
9.7	10.6	7.0	6.8	6.9	8.8	6.4	2.9	5.0	6.1	10.0	7.3	9.4	7.7	7.4	72.3	9.7	8.6
47.9	54.8	57.5	57.0	64.6	54.2	56.3	60.2	52.7	51.0	53.0	54.3	69.5	64.3	64.4	21.3	63.0	61.7
36.8	36.0	34.3	36.2	28.5	35.2	35.8	35.3	38.0	40.7	35.2	36.2	19.3	25.2	26.6	6.4	25.2	27.7
15.3	9.2	8.2	6.8	6.9	10.6	7.9	4.5	9.3	8.4	11.8	9.5	11.2	10.5	8.9	72.3	11.9	10.6
32.7	32.1	35.2	33.8	36.4	33.6	31.9	35.1	34.1	35.1	35.5	35.2	43.5	35.5	38.5	33.7	36.9	38.1
59.1	54.7	72.0	52.5	21.8	54.4	60.9	57.3	63.1	0.0	48.9	48.4	28.1	31.0	30.5	2.1	29.9	37.0
71.6	74.0	81.8	78.8	88.8	76.7	69.5	85.9	85.5	85.2	79.4	82.3	87.2	80.0	88.4	44.7	82.2	84.0
9.0	9.2	11.1	10.7	12.8	10.0	9.0	11.3	10.5	10.7	11.7	11.3	19.3	12.3	15.0	11.0	13.4	14.0
7.0	6.9	8.2	8.0	7.9	7.5	7.0	8.8	8.0	8.1	8.6	8.5	8.6	7.7	8.8	7.5	8.0	8.4
22.6	6.6	16.4	8.1	10.1	14.2	32.8	6.2	5.0	6.1	5.8	5.8	4.2	2.4	3.9	6.4	3.1	4.6
15.8	2.9	9.3	5.3	5.6	9.0	16.0	4.5	4.3	3.4	3.4	3.8	1.9	0.7	1.4	2.1	1.0	2.5
4.4	2.9	6.1	1.7	4.0	3.8	14.8	1.0	0.2	1.5	1.3	1.1	1.4	1.1	1.6	4.3	1.4	1.2
1.8	0.3	0.5	0.4	0.3	0.8	1.0	0.2	0.0	0.8	0.3	0.3	0.5	0.5	0.2	0.0	0.3	0.4
0.6	0.5	0.5	0.8	0.3	0.6	1.0	0.5	0.4	0.4	0.8	0.6	0.4	0.1	0.7	0.0	0.3	0.5
61.5	80.8	73.2	79.7	78.7	72.6	57.1	85.0	84.6	82.9	79.6	81.9	81.8	85.1	84.8	21.3	82.9	82.1
21.7	41.8	49.1	47.7	42.0	36.7	17.0	60.3	65.9	71.5	56.5	60.3	62.6	62.2	49.2	8.5	55.4	60.0
16.3	17.1	6.8	8.0	12.0	13.3	26.7	4.5	5.6	3.8	6.9	5.9	5.6	15.1	8.1	2.1	11.9	7.1
8.2	12.0	5.0	7.8	10.1	8.8	5.7	4.9	0.9	1.5	1.0	1.8	4.6	2.6	7.7	4.3	4.7	3.4
8.5	1.3	5.7	4.7	5.6	5.5	2.0	3.2	2.8	0.8	6.9	4.9	3.7	1.2	14.0	4.3	6.3	4.8
6.8	8.7	6.6	11.6	9.0	8.2	5.7	12.1	9.3	5.3	8.3	9.0	5.4	4.0	5.8	2.1	4.7	6.7
15.8	12.6	10.5	12.1	11.2	13.2	10.1	8.7	10.4	11.0	14.6	12.3	14.0	12.5	11.4	72.3	14.0	13.3
16.4	5.5	9.8	4.9	6.4	9.9	24.0	4.7	2.6	4.2	3.8	3.8	2.3	1.3	2.1	4.3	1.7	2.8
6.3	1.1	6.6	3.2	3.7	4.3	8.8	1.5	2.4	1.9	2.0	1.9	1.9	1.1	1.8	2.1	1.4	1.8
41.0	58.3	44.3	43.4	48.9	46.8	37.5	45.4	43.8	53.6	46.5	46.5	60.8	63.6	59.7	14.9	60.5	54.7
20.5	22.5	28.9	36.4	29.8	25.8	19.7	39.7	40.8	29.3	33.1	35.4	21.0	21.5	25.0	6.4	22.4	27.4
466	444	195	229	184	1,518	6,772	270	202	141	677	1,290	1,438	535	341	7	883	3,611
18.5	48.6	31.8	21.0	34.2	31.3	54.1	9.6	3.5	9.2	8.3	7.9	5.1	26.4	12.0	28.6	20.8	10.0
20.2	29.1	51.8	55.9	37.5	34.3	19.9	70.4	76.7	80.1	68.4	71.4	36.6	54.6	46.9	14.3	51.3	52.6
5.4	5.6	6.2	7.4	12.5	6.7	3.5	6.3	5.9	2.8	4.6	5.0	44.5	6.0	13.8	14.3	9.1	21.7
48.5	12.2	6.2	5.2	9.8	21.2	13.6	5.9	7.4	2.8	10.9	8.4	8.6	8.0	20.2	42.9	13.0	9.6
3.4	2.7	1.5	6.1	2.2	3.2	3.9	4.4	2.5	3.5	3.5	3.6	2.5	2.2	3.8	0.0	2.8	3.0
26.6	35.8	47.2	51.1	41.8	37.5	28.4	55.9	55.9	56.7	42.8	49.1	22.7	49.9	36.7	28.6	44.6	37.5
24.2	30.9	23.1	16.6	19.0	24.2	16.1	11.9	8.9	9.2	16.0	13.3	24.9	25.8	24.0	28.6	25.1	20.8
17.2	11.9	9.2	9.2	8.2	12.3	16.5	6.3	11.4	9.9	11.5	10.2	14.8	7.3	15.2	28.6	10.5	12.1
15.5	8.6	9.2	5.7	13.0	10.9	13.1	6.3	6.9	9.2	8.4	7.8	16.6	6.5	11.7	0.0	8.5	11.5
2.4	2.0	2.6	3.5	2.7	2.5	3.4	6.3	3.5	2.8	8.4	6.6	2.6	1.5	2.1	0.0	1.7	3.8
10.1	9.0	6.2	9.6	11.4	9.4	17.6	10.0	9.9	10.6	8.6	9.3	15.9	6.2	7.3	14.3	6.7	11.3
4.7	6.8	8.2	9.6	8.2	6.9	7.1	7.0	7.4	7.1	8.0	7.6	4.0	3.9	5.0	0.0	4.3	5.4
15.5	11.9	11.8	13.2	11.4	13.1	13.0	17.0	13.9	14.9	13.0	14.2	12.4	13.1	12.6	14.3	12.9	13.2
17.0	10.6	8.7	14.9	16.3	13.6	12.1	14.4	10.4	14.9	15.2	14.3	14.0	13.9	12.3	14.3	13.3	13.9
6.0	2.3	9.7	6.6	6.5	5.5	4.9	6.7	5.0	6.4	10.4	8.3	10.4	3.7	7.0	0.0	5.0	8.3
16.1	16.2	12.3	17.1	15.2	15.7	13.3	17.0	23.3	10.6	11.2	14.3	16.6	15.2	15.0	0.0	15.0	15.4
5.2	2.3	3.6	5.3	0.5	3.6	3.3	3.0	5.0	5.0	4.3	4.2	6.8	7.3	6.5	0.0	6.9	5.9
10.5	2.9	5.1	5.3	7.6	6.5	7.8	7.4	8.4	10.6	8.7	8.6	9.1	12.2	13.5	14.3	12.7	9.8
4.7	2.7	6.2	3.5	3.8	4.0	4.9	5.6	5.4	8.5	5.9	6.1	7.7	3.6	3.2	14.3	3.5	6.1
13.3	8.3	13.3	11.0	8.7	10.9	17.4	13.0	10.4	12.1	10.1	10.9	10.5	11.2	5.6	42.9	9.3	10.4
0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.0	0.0	0.1	0.1
4.9	35.6	19.0	13.2	20.7	18.9	14.5	8.1	9.9	8.5	11.2	10.1	7.0	14.6	18.5	0.0	16.0	10.3
1.7	0.5	2.1	0.4	1.1	1.1	1.6	0.7	1.0	1.4	1.8	1.4	1.5	1.1	0.9	0.0	1.0	1.3

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-3c Statistical Profile of Doctorate Recipients by Major Field, 1997 (Women)

	1997 Total	Physics and Astronomy	Chemistry	Earth, Atmos. and Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES	ENGINEERING	Biochemistry	Other Biosciences	Health Sciences	Agricultural Sciences	LIFE SCIENCES	
Total Women	17,322	220	605	212	260	144	1,441	747	360	2,103	916	290	3,669	
Women as a Percent of Total Doctorates	%	40.6	14.0	28.6	24.0	23.4	16.2	21.9	12.3	43.8	43.0	65.7	26.3	
U.S. Citizenship	%	74.2	52.3	57.5	67.5	53.1	56.3	57.3	54.9	62.2	66.2	75.1	52.8	
Non-U.S., Permanent Visa		6.3	15.0	13.1	9.0	13.1	11.8	12.6	13.3	11.7	11.2	3.9	9.3	
Non-U.S., Temporary Visa		11.6	27.3	22.8	16.0	27.3	25.0	23.5	26.8	21.7	18.6	13.6	29.7	
Unknown		7.9	5.5	6.6	7.5	6.5	6.9	6.6	5.1	4.4	3.9	7.3	8.3	
Married	%	50.4	55.9	50.4	47.2	51.5	49.3	50.9	54.8	47.5	51.8	57.4	48.3	
Not Married		37.9	36.8	40.5	41.0	39.2	39.6	39.7	39.2	45.8	42.2	32.8	41.4	
Unknown		11.7	7.3	9.1	11.8	9.2	11.1	9.4	6.0	6.7	6.0	9.8	10.3	
Median Age at Doct.	Yrs	34.8	29.9	29.1	32.6	31.2	32.7	30.5	30.1	29.9	30.9	41.6	33.3	
Percent with Bacc. In Same Field as Doctorate	%	47.6	66.4	72.9	38.7	63.1	36.1	61.4	70.5	22.5	53.3	54.0	41.7	
Percent with Masters	%	73.4	65.9	40.5	72.2	77.3	77.8	59.4	80.9	26.9	42.7	82.1	83.1	
Median Time Lapse from Bacc. To Doct.														
Total Time Registered Time	Yrs	11.5 7.6	7.6 6.6	6.6 5.8	10.0 7.9	8.6 6.6	10.2 8.2	7.9 6.6	7.8 6.3	7.3 6.3	8.2 6.8	17.0 8.1	10.0 6.9	
Postdoctoral Study Plans	%	20.5	44.5	43.6	43.9	25.0	15.3	37.6	19.0	74.7	64.0	13.3	29.7	
Fellowship		12.6	20.5	19.8	21.7	12.7	8.3	17.8	7.4	49.2	42.0	9.2	11.4	
Research Assoc.		6.5	22.7	22.5	21.7	11.5	6.3	18.8	10.3	20.0	18.7	3.2	17.6	
Traineeship		0.6	1.4	0.3	0.0	0.8	0.7	0.6	0.7	0.8	1.1	0.5	0.3	
Other Study		0.8	0.0	1.0	0.5	0.0	0.0	0.5	0.7	4.7	2.2	0.4	0.3	
Planned Employment After Doctorate	%	65.7	45.9	46.3	44.3	61.9	72.2	51.4	73.1	17.5	27.7	74.3	56.9	
Educ. Institution★		39.3	12.3	12.2	17.0	35.8	34.7	19.4	15.0	5.8	10.5	40.9	20.0	
Industry/Business		10.6	24.5	26.3	9.0	16.2	32.6	22.3	44.7	5.3	5.7	11.5	17.9	
Government		3.3	3.6	1.7	8.0	1.2	0.0	2.6	5.0	0.8	2.1	7.4	5.9	
Nonprofit		3.8	0.5	0.5	2.8	1.2	1.4	1.0	1.1	0.0	1.5	6.7	2.4	
Other & Unknown		8.7	5.0	5.6	7.5	7.7	3.5	6.0	7.4	5.6	7.9	7.9	10.7	
Postdoc. Plans Unknown	%	13.7	9.5	10.1	11.8	13.1	12.5	11.0	7.9	7.8	8.3	12.3	13.4	
Definite Postdoc. Study	%	14.7	31.8	32.1	31.1	17.7	10.4	27.1	13.0	53.9	48.8	9.5	19.0	
Seeking Postdoc. Study		5.9	12.7	11.6	12.7	7.3	4.9	10.5	6.0	20.8	15.2	3.8	10.7	
Definite Employment		42.7	29.1	27.9	28.8	41.9	54.9	33.4	47.3	8.1	15.7	54.8	31.7	
Seeking Employment		23.1	16.8	18.3	15.6	20.0	17.4	17.9	25.8	9.4	12.0	19.5	25.2	
Employment Commitments														
After Doctorate		7,390	64	169	61	109	79	482	353	29	331	502	92	954
Primary Activity+														
R & D	%	18.8	51.6	59.2	32.8	30.3	50.6	46.9	65.4	24.1	30.8	25.7	52.2	30.0
Teaching		44.9	23.4	26.6	34.4	56.0	34.2	35.1	16.1	20.7	29.0	45.2	23.9	36.8
Administration		14.8	6.3	0.6	6.6	1.8	1.3	2.5	1.1	0.0	3.9	9.0	4.3	6.5
Prof. Services		14.7	9.4	6.5	13.1	6.4	7.6	7.9	11.0	17.2	11.2	15.5	8.7	13.4
Other		2.9	3.1	3.6	9.8	1.8	3.8	3.9	2.5	10.3	6.0	1.0	7.6	3.7
Secondary Activity														
R & D	%	36.1	32.8	26.6	45.9	57.8	38.0	38.8	29.2	10.3	29.6	41.2	26.1	34.8
Teaching		16.7	7.8	5.3	16.4	7.3	21.5	10.2	12.7	13.8	17.5	16.9	18.5	17.2
Administration		12.1	9.4	18.9	3.3	4.6	8.9	10.8	11.6	10.3	10.0	14.1	16.3	12.8
Prof. Services		12.5	7.8	7.1	13.1	8.3	7.6	8.3	12.5	0.0	9.4	14.3	12.0	11.9
Other		3.8	3.1	3.0	1.6	1.8	1.3	2.3	4.5	3.4	3.0	3.4	7.6	3.7
No Secondary Activity		15.1	32.8	35.5	16.4	16.5	20.3	25.9	26.1	34.5	11.8	6.6	16.3	10.2
Activity(ies) Unknown	%	3.7	6.3	3.6	3.3	3.7	2.5	3.7	3.4	27.6	18.7	3.4	3.3	9.4
Region of Employment After Doctorate+														
New England	%	6.4	12.5	6.5	6.6	12.8	11.4	9.5	7.1	3.4	6.3	4.4	5.4	5.1
Middle Atlantic		14.9	15.6	23.1	9.8	18.3	22.8	19.3	15.6	17.2	14.5	10.2	7.6	11.6
East No. Central		14.4	7.8	14.8	8.2	14.7	7.6	11.8	9.6	24.1	11.5	15.9	9.8	14.0
West No. Central		7.9	9.4	8.3	8.2	7.3	2.5	7.3	5.1	13.8	6.9	7.8	7.6	7.7
South Atlantic		17.7	10.9	13.6	24.6	19.3	13.9	16.0	15.0	10.3	17.2	19.1	16.3	17.9
East So. Central		5.1	4.7	7.1	0.0	4.6	1.3	4.4	4.8	3.4	2.4	5.0	8.7	4.4
West So. Central		8.0	3.1	5.3	11.5	5.5	7.6	6.2	7.6	3.4	6.3	8.4	5.4	7.2
Mountain		5.8	3.1	2.4	8.2	4.6	3.8	3.9	5.4	10.3	6.9	6.2	4.3	6.4
Pacific & Insular		12.5	23.4	12.4	14.8	6.4	15.2	13.3	20.4	6.9	15.1	12.4	9.8	12.9
U.S., Region Unknown		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign		6.3	9.4	5.3	6.6	3.7	11.4	6.6	7.1	3.4	10.3	10.2	23.9	11.3
Region Unknown		1.1	0.0	1.2	1.6	2.8	2.5	1.7	2.3	3.4	2.4	0.6	1.1	1.4

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See last page of report for a description of fields in this table.

Physical Sciences includes Mathematics and Computer Sciences, as well as Physics/Astronomy, Chemistry, and Earth/Atmospheric/Marine Sciences. Refer also to the explanatory note for this table. Calculations in this table exclude 329 female respondents with missing data for doctoral field.

*Includes 2-year, 4-year and foreign colleges and universities, medical schools, and elementary/secondary schools.

+Includes only recipients with definite employment plans.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-3c Statistical Profile of Doctorate Recipients by Major Field, 1997 (Women)

Psychology	Economics	Anthropology & Sociology	Political Sci / Internat'l Rel.	Other Social Sciences	SOCIAL SCI INCL. PSYCH.	TOTAL SCIENCES & ENGINEERING	History	English & Amer. Lang. & Lit.	Foreign Lang. & Lit.	Other Humanities	HUMANITIES	EDUCATION	Business & Management	Other Professional Fields	PROFESSIONAL / OTHER FIELDS	TOTAL NONSCIENCES	
2,324	231	555	208	295	3,613	9,470	354	619	386	1,213	2,572	4,079	370	502	49	921	7,572
66.6	22.8	55.4	28.2	43.5	52.2	34.1	37.1	57.3	59.1	44.9	47.7	62.8	30.3	46.4	43.8	38.2	53.0
83.6	73.1	78.6	81.3	73.9	79.4	69.3	81.9	88.5	61.7	75.6	77.5	85.1	80.0	78.1	26.5	76.1	81.4
2.7	6.7	4.5	7.7	7.5	4.4	8.2	5.9	2.7	15.3	6.6	6.9	2.2	5.4	4.2	0.0	4.5	4.1
3.1	16.0	11.0	4.3	13.2	7.2	15.6	7.6	4.8	16.3	10.3	9.5	4.6	9.2	12.4	6.1	10.7	7.0
10.6	4.3	5.9	6.7	5.4	9.0	6.9	4.5	3.9	6.7	7.5	6.1	8.1	5.4	67.3	8.7	7.5	
43.5	55.4	45.9	55.8	49.8	45.6	49.8	50.8	49.8	47.2	45.9	47.7	56.2	61.9	50.6	10.2	53.0	52.9
40.4	38.9	45.8	37.0	40.0	41.0	40.3	42.4	42.2	42.5	41.7	42.0	32.7	30.0	41.6	14.3	35.5	36.2
16.1	5.7	8.3	7.2	10.2	13.4	9.9	6.8	8.1	10.4	12.4	10.3	11.0	8.1	7.8	75.5	11.5	10.8
32.5	38.3	35.6	33.4	35.6	33.3	32.0	35.1	35.2	35.2	35.5	35.3	44.4	36.3	39.7	40.9	37.8	40.5
58.0	46.9	75.0	51.9	16.9	56.8	55.8	51.7	60.3	0.0	48.1	44.3	38.0	34.1	28.9	0.0	29.4	39.1
73.9	86.7	85.6	78.8	84.7	76.7	65.7	83.3	86.4	81.1	81.8	83.0	87.4	81.4	90.4	28.6	83.5	85.4
9.1	14.3	11.8	10.0	12.2	10.0	9.2	12.0	11.4	12.0	12.0	20.3	12.7	15.5	16.5	14.0	16.0	
7.3	7.7	8.8	7.8	7.7	7.5	7.0	9.1	8.8	8.6	8.8	8.3	7.3	8.0	7.4	7.7	8.4	
25.3	4.0	12.8	8.2	8.8	19.8	34.0	7.6	5.2	6.1	5.9	3.6	3.2	4.4	0.0	3.7	4.4	
18.9	2.1	8.3	5.3	4.7	14.3	21.2	5.6	3.6	3.4	3.5	1.6	1.4	1.8	0.0	1.5	2.3	
4.2	1.8	3.8	1.4	3.7	3.8	10.9	1.1	0.8	0.8	1.5	1.2	1.4	1.6	0.0	1.4	1.3	
1.8	0.0	0.2	0.0	0.0	1.2	0.9	0.3	0.2	0.5	0.4	0.3	0.2	0.0	0.4	0.0	0.2	0.2
0.4	0.1	0.5	1.4	0.3	0.5	1.0	0.6	0.6	0.5	0.7	0.7	0.4	0.3	0.8	0.0	0.5	0.5
57.9	88.0	77.8	83.2	79.7	65.9	54.5	82.2	83.0	81.6	79.9	81.2	82.5	87.8	86.3	26.5	83.7	82.2
20.8	59.8	50.6	55.8	39.3	29.9	22.7	60.7	64.3	64.5	56.1	60.0	62.7	69.2	58.8	8.2	60.3	61.5
12.9	9.1	5.9	4.8	14.6	12.0	14.6	5.9	5.0	3.9	7.7	6.3	5.2	10.0	9.0	4.1	9.1	6.0
5.1	4.4	3.6	2.9	5.8	5.0	4.1	2.3	0.8	0.5	0.9	1.0	3.3	1.1	4.6	2.0	3.0	2.5
9.1	3.4	4.3	6.7	9.8	8.1	4.4	1.4	1.6	1.0	3.4	2.3	3.2	3.0	6.8	4.1	5.1	3.2
10.0	11.3	13.3	13.0	10.2	11.0	8.7	11.9	11.3	11.7	11.7	11.6	8.1	4.6	7.2	8.2	6.2	9.0
16.8	8.0	9.4	8.7	11.5	14.3	11.5	10.2	11.8	13.2	14.0	12.8	13.9	8.9	9.4	73.5	12.6	13.4
17.8	2.8	8.5	5.3	7.1	13.8	24.8	4.5	3.1	2.8	2.5	3.0	2.3	2.4	0.0	2.3	2.5	
7.5	1.2	4.3	2.9	1.7	6.0	9.2	3.1	2.1	2.3	3.6	3.0	1.3	0.8	2.0	0.0	1.4	1.9
36.5	60.7	45.2	50.0	49.2	41.2	34.6	45.2	44.1	45.6	44.2	44.5	59.1	68.4	58.6	14.3	60.2	54.3
21.3	27.3	32.6	33.2	30.5	24.7	19.9	37.0	38.9	36.0	35.7	36.7	23.5	19.5	27.7	12.2	23.6	28.0
849	471	251	104	145	1,490	3,279	160	273	176	536	1,145	2,409	253	294	7	554	4,108
17.0	17.8	24.3	21.2	27.6	22.3	32.8	9.4	2.9	5.1	7.8	6.5	5.7	24.9	13.3	28.6	18.8	7.7
19.7	62.0	58.2	62.5	41.4	32.8	32.5	79.4	78.4	84.7	74.4	77.6	43.5	56.1	57.8	28.6	56.7	54.8
4.4	7.9	5.6	4.8	9.0	4.7	4.5	3.8	7.7	2.8	4.7	5.0	34.8	5.9	10.5	0.0	8.3	22.9
52.2	7.6	4.8	3.8	10.3	32.7	21.1	1.9	3.3	2.3	4.7	3.6	12.1	5.9	15.6	28.6	11.4	9.6
4.0	2.1	2.4	5.8	7.6	4.2	3.8	4.4	3.7	1.7	4.5	3.8	1.5	3.6	0.7	14.3	2.2	2.2
29.2	41.8	51.0	58.7	44.8	37.4	36.0	65.0	50.2	68.8	49.1	54.6	24.8	49.4	45.9	28.6	47.3	36.1
19.7	14.9	15.5	15.4	14.5	18.1	16.1	10.0	8.1	8.0	10.1	9.3	19.6	26.5	19.0	14.3	22.4	17.1
15.5	10.4	8.0	7.7	13.8	12.6	12.3	4.4	14.3	8.0	12.1	10.9	13.4	6.3	9.5	14.3	8.1	12.0
11.3	12.5	7.6	4.8	11.7	10.4	10.8	3.8	6.6	2.8	6.7	5.7	19.0	4.7	13.3	0.0	9.2	13.9
5.1	2.3	3.2	1.9	4.1	4.1	3.8	4.4	4.4	1.1	7.5	5.3	3.4	3.2	2.0	14.3	2.7	3.8
16.5	15.5	10.0	9.6	6.9	14.1	16.0	11.3	12.5	8.0	10.6	10.7	17.6	6.3	8.2	28.6	7.6	14.4
2.7	2.5	4.8	1.9	4.1	3.2	5.1	1.3	4.0	3.4	3.9	3.5	2.2	3.6	2.0	0.0	2.7	2.6
7.2	9.2	8.8	12.5	11.7	8.5	7.5	8.1	7.0	6.8	8.8	7.9	4.7	5.1	3.1	0.0	4.0	5.5
19.9	12.8	10.4	10.6	20.0	17.0	15.6	15.0	18.7	19.3	14.9	16.5	13.2	14.2	15.0	0.0	14.4	14.3
14.0	8.5	13.9	12.5	13.1	13.3	12.9	13.8	19.0	13.1	14.7	15.4	15.1	17.8	18.0	14.3	17.9	15.5
6.7	4.3	8.8	6.7	6.2	6.8	6.9	5.6	4.0	6.8	9.3	7.2	9.6	8.3	8.2	0.0	8.1	8.7
17.0	22.7	14.7	21.2	17.9	17.5	17.1	18.1	15.8	16.5	13.8	15.3	19.7	17.0	17.0	14.3	17.0	18.1
3.8	1.4	4.4	2.9	2.1	3.4	4.0	1.9	4.8	5.1	4.1	4.1	7.1	4.7	4.8	0.0	4.7	5.9
7.8	5.0	6.4	6.7	4.1	6.9	7.0	6.3	9.2	6.8	7.3	7.5	9.5	8.3	8.8	14.3	8.7	8.8
5.9	4.3	9.6	1.9	6.9	6.2	5.8	5.0	3.7	5.7	5.0	4.8	6.1	5.9	6.1	14.3	6.1	5.7
14.5	7.8	13.1	16.3	11.7	13.5	14.0	20.6	13.6	9.1	12.3	13.3	10.7	9.1	10.2	0.0	9.6	11.3
0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1
2.0	24.1	9.2	8.7	5.5	6.1	7.8	5.6	4.4	10.8	8.6	7.5	3.3	8.7	8.2	0.0	8.3	5.1
1.2	0.0	0.8	0.0	0.7	0.8	1.3	0.0	0.0	0.0	0.9	0.4	1.0	0.8	0.7	42.9	1.3	0.9

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-4 Statistical Profile of Doctorate Recipients, by Race/Ethnicity and Citizenship, 1997

	Total				American Indian	Asian				Black						
	Total*	U.S.	Non-U.S.			Total	Total*		U.S.	Non-U.S.		Total*	U.S.	Non-U.S.		
			Perm.	Temp.			Perm.	Temp.		Perm.	Temp.			Perm.	Temp.	
Total Number	42,705	27,668	2,915	8,475	166	9,017	1,328	1,812	5,476	1,774	1,335	141	250			
Male	%	58.5	53.5	62.6	76.2	47.0	71.3	57.2	63.0	77.5	48.7	39.5	77.3	77.6		
Female		40.6	46.5	37.4	23.7	53.0	28.7	42.8	37.0	22.5	51.3	60.5	22.7	22.4		
Doctoral Field																
Physical Sciences	%	15.6	13.0	21.2	23.1	8.0	21.7	19.4	23.8	21.9	6.0	4.5	7.8	12.8		
Engineering		14.4	9.8	20.4	28.3	9.9	29.0	22.2	23.1	32.8	7.4	6.2	10.6	13.6		
Life Sciences		19.5	18.6	25.5	21.9	12.3	24.4	24.4	30.9	22.2	15.9	12.4	19.1	30.8		
Social Sciences		16.4	18.3	11.4	10.6	17.9	10.0	14.2	7.7	9.7	18.8	19.0	24.8	14.4		
Humanities		12.8	15.0	11.2	6.4	14.2	5.0	8.6	5.2	3.8	9.9	10.2	12.1	6.4		
Education		15.4	19.6	5.7	4.3	30.9	4.7	7.5	4.4	4.0	34.3	39.7	19.9	15.6		
Professional/Other		5.7	5.8	4.6	5.3	6.8	5.2	3.8	4.8	5.6	7.6	8.1	5.7	6.4		
Median Age at Doct.	Yrs	33.6	34.2	34.0	32.3	37.3	32.7	31.4	33.8	32.4	38.6	39.1	38.9	36.6		
Median Time Lapse																
Total Time	Yrs	10.5	10.7	11.3	9.7	12.8	10.2	8.9	11.8	10.0	13.1	14.1	12.2	11.7		
Registered Time		7.3	7.4	7.9	7.0	7.6	7.3	7.0	8.1	7.1	7.6	7.8	7.9	6.8		
Graduate School Support†																
Veterans Administration	%	1.5	1.9	0.0	0.0	2.4	0.4	0.9	0.0	0.0	3.0	2.1	0.0	0.0		
Other Federal		15.1	20.1	8.4	6.5	27.1	7.6	25.8	7.3	3.7	21.4	21.7	16.3	22.4		
State Govt		1.7	2.3	1.1	0.7	2.4	0.9	1.7	1.1	0.6	2.9	3.5	1.4	1.2		
Foreign Govt		4.2	1.1	5.0	14.4	1.8	6.1	1.1	2.6	8.2	3.2	0.7	3.5	14.4		
National Fellow (nonfed.)		5.9	7.1	4.9	4.5	13.3	3.5	7.5	3.1	2.7	13.9	14.1	9.2	16.0		
Univ. Teaching Asst★	%	52.8	55.9	61.8	58.4	48.8	56.0	53.5	59.9	56.8	41.5	39.6	53.2	47.2		
Univ. Research Asst		54.5	53.4	70.5	71.7	46.4	73.2	64.5	77.2	75.6	44.0	42.1	51.8	54.8		
Other University		37.4	42.7	38.7	33.5	46.4	32.8	43.8	35.7	30.0	49.9	54.3	39.0	38.0		
Business/Employer		12.3	16.9	7.6	3.9	14.5	5.0	10.5	6.8	3.1	13.5	16.3	6.4	4.4		
Self/Family Sources		73.1	85.5	64.8	62.4	83.1	61.6	70.9	57.8	61.6	81.1	86.8	71.6	60.0		
GSL (Stafford) Loan	%	23.9	35.6	10.7	0.2	32.5	4.5	22.7	5.4	0.1	34.9	43.1	28.4	0.0		
Other Loans		10.3	14.6	4.6	2.4	15.1	2.8	11.0	2.5	1.0	15.2	18.1	13.5	2.8		
Other Sources		2.3	2.4	2.2	3.0	4.2	1.8	2.3	1.4	1.7	3.9	2.8	3.5	9.2		
Unknown Sources		10.4	4.6	0.9	1.5	6.0	3.8	11.1	1.0	1.6	4.0	3.9	0.7	1.2		
Postdoctoral Plans																
Postdoc study plans	%	22.9	20.9	29.2	35.4	13.3	33.2	29.1	31.8	35.4	18.7	16.2	22.0	32.0		
Postdoc employment plans	%	63.6	71.5	64.9	59.4	77.1	59.2	57.8	62.3	59.4	72.6	75.7	68.1	62.0		
Ed. Inst. Institution#		32.4	39.6	24.9	23.3	41.0	20.4	22.0	18.7	20.5	44.4	49.3	35.5	26.0		
Industry/Business		16.7	14.8	28.1	24.9	13.3	28.1	22.3	32.7	28.8	9.8	8.5	12.8	16.0		
Government		4.3	4.9	2.4	4.4	6.0	3.7	3.5	2.6	4.0	6.4	6.1	5.0	8.4		
Nonprofit		3.1	4.1	2.0	1.4	4.2	1.6	2.7	1.7	1.3	3.8	3.9	4.3	2.8		
Other/Unknown		7.0	8.1	7.5	5.5	12.7	5.5	7.4	6.6	4.7	8.2	7.9	10.6	8.8		
Postdoc plans unknown	%	13.5	7.6	5.9	5.2	9.6	7.6	13.0	5.9	5.2	8.7	8.2	9.9	6.0		
Definite Postdoc. Study	%	16.5	16.1	18.7	23.2	8.4	21.6	22.3	20.1	22.5	11.3	11.2	9.2	13.6		
Seeking Postdoc. Study		6.4	4.8	10.5	12.2	4.8	11.6	6.9	11.8	12.8	7.4	4.9	12.8	18.4		
Definite Employment		41.6	48.4	36.7	36.3	58.4	34.6	37.1	34.9	34.8	47.4	51.6	30.5	37.2		
Seeking Employment		21.9	23.1	28.2	23.1	18.7	24.6	20.7	27.4	24.6	25.2	24.0	37.6	24.8		
Employment Location																
After Doctorate+	%	17,775	13,395	1,071	3,080	97	3,123	493	632	1,904	841	689	43	93		
U.S.		88.4	96.5	89.6	56.8	94.8	72.8	92.3	92.1	63.3	89.2	97.8	88.4	37.6		
Foreign		10.2	2.2	8.6	41.9	3.1	25.4	4.7	5.9	35.3	9.0	0.7	9.3	60.2		
Unknown		1.3	1.3	1.8	1.2	2.1	1.8	3.0	2.1	1.3	1.8	1.5	2.3	2.2		

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

* Includes 384 individuals who did not report their sex and 3,647 individuals who did not report their citizenship at time of doctorate.

† In this table a recipient counts once in each source category from which he or she received support. Since students indicate multiple sources of support, the vertical percentages sum to more than 100 percent. Data on the "primary" source of support for doctorate recipients are presented in the Summary Report.

★ Because federal support obtained through the university cannot always be determined, no distinction is made between federal and university research assistants in this table. Both types of support are grouped under "University Research Assistant." Federal loans are counted in the categories for loans.

Includes 2-year, 4-year, and foreign colleges and universities, medical schools, and elementary/secondary schools.

+ Includes only recipients with definite employment plans.

Source: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-4 Statistical Profile of Doctorate Recipients, by Race/Ethnicity and Citizenship, 1997

White				Puerto Rican	Mexican American				Other Hispanic				Unknown Race			
Total*	U.S.	Perm.	Non-U.S. Temp.		Total	Total*	U.S.	Perm.	Non-U.S. Temp.	Total*	U.S.	Perm.	Non-U.S. Temp.	Total*	U.S.	Perm.
26,176	23,021	768	2,079	312	335	290	9	28	1,029	445	125	402	3,896	807	57	220
55.8	54.0	59.4	73.5	49.4	55.5	53.8	66.7	71.4	61.3	50.6	60.0	71.9	62.4	63.4	59.6	78.2
44.2	46.0	40.6	26.5	50.6	44.5	46.2	33.3	28.6	38.7	49.4	40.0	28.1	37.6	36.6	40.4	21.8
14.6	13.2	19.4	28.5	11.3	8.4	8.0	11.1	14.3	13.7	9.3	11.2	18.4	14.8	17.3	22.8	25.0
10.6	9.3	17.7	21.7	7.4	6.3	5.9	0.0	14.3	12.1	9.3	11.2	16.2	11.3	13.7	15.8	20.9
18.7	18.8	15.5	19.1	16.1	19.3	16.4	44.4	42.9	21.1	17.3	20.8	24.9	15.2	18.1	12.3	23.2
17.8	18.3	15.9	11.5	22.8	22.9	24.0	22.2	17.9	17.6	20.3	16.8	14.9	20.3	17.2	22.8	11.4
15.3	15.5	21.6	11.1	16.7	13.0	12.2	11.1	10.7	19.1	19.1	28.8	16.7	13.4	18.1	15.8	6.4
17.4	19.1	5.7	3.1	22.5	26.8	30.0	11.1	0.0	12.3	19.8	7.2	6.5	17.8	10.7	8.8	7.3
5.7	5.8	4.2	4.9	3.2	3.3	3.5	0.0	0.0	4.0	4.8	4.0	2.5	7.2	4.8	1.8	5.9
33.8	34.2	33.5	31.5	35.8	33.9	33.6	36.6	36.7	35.2	34.5	35.8	35.3	33.2	33.6	33.9	32.0
10.4	10.7	9.6	8.2	12.4	10.5	10.0	13.1	13.9	11.0	11.0	11.1	11.0	10.0	10.4	9.3	9.0
7.3	7.4	7.2	6.6	8.2	7.4	7.5	6.7	6.7	7.1	7.5	7.3	6.8	7.3	7.9	7.3	6.6
1.9	2.0	0.0	0.0	1.3	2.1	1.4	0.0	0.0	3.0	1.1	0.0	0.0	0.6	1.7	0.0	0.0
18.4	19.7	9.5	9.7	22.8	27.2	26.9	22.2	35.7	16.9	23.4	8.0	13.7	4.3	15.0	7.0	10.9
2.0	2.2	1.0	0.4	4.8	3.6	2.8	11.1	7.1	1.7	2.2	1.6	1.2	0.3	1.2	0.0	1.4
3.3	1.1	7.6	24.3	1.6	6.0	0.7	11.1	57.1	19.6	3.6	20.8	36.1	2.5	1.0	12.3	31.8
6.4	6.5	6.9	6.5	9.6	14.0	13.8	11.1	21.4	9.2	9.2	8.8	9.7	2.3	7.2	12.3	7.3
58.3	57.8	68.4	65.4	39.7	51.0	52.4	44.4	46.4	52.5	49.7	61.6	55.2	14.4	42.8	56.1	55.9
55.1	54.1	61.7	68.4	40.4	54.0	54.5	77.8	53.6	51.0	48.8	52.0	55.0	14.7	43.2	63.2	57.7
41.8	42.0	44.8	42.7	46.8	51.0	52.4	55.6	46.4	37.7	45.4	38.4	30.6	10.5	33.3	49.1	35.0
16.2	17.6	9.8	5.5	13.5	11.3	11.4	22.2	10.7	9.5	14.6	7.2	5.5	3.2	12.6	5.3	3.6
84.7	87.3	77.7	65.6	72.8	85.1	88.3	77.8	67.9	70.7	80.2	76.0	63.2	17.9	60.6	68.4	50.0
32.2	36.0	17.6	0.2	36.9	40.6	45.9	22.2	0.0	19.6	38.7	22.4	0.5	5.9	26.1	14.0	0.5
13.3	14.3	7.6	5.5	19.6	23.9	26.6	22.2	3.6	11.3	19.8	6.4	4.5	3.0	12.3	5.3	2.7
2.5	2.3	3.4	4.0	3.2	4.2	3.4	11.1	10.7	5.6	3.1	4.0	8.5	0.7	1.5	1.8	5.9
3.5	3.2	0.7	0.8	11.2	5.1	4.1	0.0	0.0	6.0	7.2	0.8	3.7	76.1	31.0	1.8	1.4
22.4	21.0	25.5	38.2	15.4	21.2	22.4	33.3	10.7	23.3	21.1	21.6	27.1	5.9	15.1	28.1	32.7
71.2	73.0	69.4	57.9	66.7	69.3	69.3	55.6	82.1	67.2	69.4	73.6	64.7	16.1	49.2	63.2	57.7
39.0	40.5	33.7	27.8	37.5	43.9	43.8	33.3	50.0	38.9	41.8	44.0	34.8	7.2	22.4	35.1	22.7
15.5	15.1	22.8	18.7	11.5	11.0	11.4	0.0	14.3	12.2	9.7	16.8	14.2	3.9	11.4	19.3	15.9
4.8	5.0	1.7	3.8	5.4	4.8	3.8	0.0	17.9	5.3	4.3	1.6	7.7	1.2	3.0	1.8	5.5
4.0	4.3	2.3	1.3	3.2	2.7	3.1	0.0	0.0	3.4	4.9	2.4	2.0	0.6	2.2	1.8	1.8
7.9	8.1	8.9	6.3	9.0	6.9	7.2	22.2	0.0	7.4	8.8	8.8	6.0	3.2	10.2	5.3	11.8
6.5	6.1	5.1	3.8	17.9	9.6	8.3	11.1	7.1	9.4	9.4	4.8	8.2	78.1	35.7	8.8	9.5
17.1	16.3	17.7	27.4	12.2	14.6	14.8	33.3	10.7	14.6	13.3	12.8	17.2	4.6	12.3	22.8	24.1
5.3	4.7	7.8	10.9	3.2	6.6	7.6	0.0	0.0	8.7	7.9	8.8	10.0	1.3	2.9	5.3	8.6
48.0	49.5	40.4	38.6	45.5	47.2	47.6	22.2	53.6	45.8	46.7	49.6	44.0	9.7	30.2	35.1	36.4
23.2	23.5	29.0	19.3	21.2	22.1	21.7	33.3	28.6	21.5	22.7	24.0	20.6	6.4	19.0	28.1	21.4
12,565	11,396	310	803	142	158	138	2	15	471	208	62	177	378	244	20	80
93.2	96.8	85.5	51.2	95.8	88.6	96.4	50.0	33.3	67.1	92.8	90.3	35.6	77.8	94.7	80.0	32.5
5.6	2.1	12.9	47.8	2.1	8.9	2.2	50.0	60.0	32.1	5.8	9.7	63.8	20.4	3.7	20.0	66.3
1.2	1.2	1.6	1.0	2.1	2.5	1.4	0.0	6.7	0.8	1.4	0.0	0.6	1.9	1.6	0.0	1.3

Source: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-5 Sources of Graduate School Support for Doctorate Recipients by Broad Field and Sex, 1997

	Total*		Physical Sciences		Engineering		Life Sciences		Social Sciences		Humanities		Education		Prof/Other Fields		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	
Federal Fellow/ Trainee	N	2,573	2,133	448	187	394	149	994	1,022	331	426	263	203	104	114	39	31
	V★	11.3%	13.7%	9.5%	14.1%	8.0%	21.1%	23.8%	29.7%	11.3%	13.3%	10.4%	8.6%	4.9%	3.1%	3.0%	3.7%
	H★	100.0%	100.0%	17.4%	8.8%	15.3%	7.0%	38.6%	47.9%	12.9%	20.0%	10.2%	9.5%	4.0%	5.3%	1.5%	1.5%
Veterans Admin.	N	454	195	52	7	44	6	38	31	112	94	79	35	88	14	41	8
	V	2.0%	1.3%	1.1%	0.5%	0.9%	0.8%	0.9%	0.9%	3.8%	2.9%	3.1%	1.5%	4.2%	0.4%	3.2%	1.0%
	H	100.0%	100.0%	11.5%	3.6%	9.7%	3.1%	8.4%	15.9%	24.7%	48.2%	17.4%	17.9%	19.4%	7.2%	9.0%	4.1%
Other Federal Support+	N	1,697	1,064	582	196	454	97	263	288	184	196	101	104	69	138	44	44
	V	7.5%	6.8%	12.3%	14.7%	9.2%	13.7%	6.3%	8.4%	6.3%	6.1%	4.0%	4.4%	3.3%	3.8%	3.4%	5.3%
	H	100.0%	100.0%	34.3%	18.4%	26.8%	9.1%	15.5%	27.1%	10.8%	18.4%	6.0%	9.8%	4.1%	13.0%	2.6%	4.1%
State Government	N	429	291	61	19	74	5	89	71	78	71	47	43	56	65	24	17
	V	1.9%	1.9%	1.3%	1.4%	1.5%	0.7%	2.1%	2.1%	2.7%	1.9%	1.8%	2.6%	1.8%	1.8%	2.1%	2.1%
	H	100.0%	100.0%	14.2%	6.5%	17.2%	1.7%	20.7%	24.4%	18.2%	24.4%	11.0%	14.8%	13.1%	22.3%	5.6%	5.8%
Foreign Government	N	1,335	463	217	52	332	36	253	111	217	83	180	105	72	48	64	28
	V	5.9%	3.0%	4.6%	3.9%	6.7%	5.1%	6.1%	3.2%	7.4%	2.6%	7.1%	4.5%	3.4%	1.3%	4.9%	3.4%
	H	100.0%	100.0%	16.3%	11.2%	24.9%	7.8%	19.0%	24.0%	16.3%	17.9%	13.5%	22.7%	5.4%	10.4%	4.8%	6.0%
National Fellow (nonfed.)	N	1,302	1,225	210	76	154	60	219	266	270	277	341	382	44	113	64	50
	V	5.7%	7.9%	4.4%	5.7%	3.1%	8.5%	5.3%	7.7%	9.2%	8.6%	13.5%	16.2%	2.1%	3.1%	4.9%	6.0%
	H	100.0%	100.0%	16.1%	6.2%	11.8%	4.9%	16.8%	21.7%	20.7%	22.6%	26.2%	31.2%	3.4%	9.2%	4.9%	4.1%
University Teaching Assistant	N	13,757	8,766	3,743	1,093	2,589	423	1,908	1,576	2,084	2,121	2,008	1,934	616	1,089	809	529
	V	60.6%	56.4%	79.1%	82.2%	52.5%	59.8%	45.8%	45.8%	71.2%	66.2%	79.3%	82.2%	29.1%	29.7%	62.2%	63.9%
	H	100.0%	100.0%	27.2%	12.5%	18.8%	4.8%	13.9%	18.0%	15.1%	24.2%	14.6%	22.1%	4.5%	12.4%	5.9%	6.0%
University Research Assistant+	N	14,980	8,292	3,860	1,074	4,048	596	3,358	2,588	1,727	1,879	802	755	490	977	694	420
	V	65.9%	53.4%	81.6%	80.8%	82.1%	84.3%	80.5%	75.2%	59.0%	58.6%	31.7%	32.1%	23.1%	26.6%	53.4%	50.7%
	H	100.0%	100.0%	25.8%	13.0%	27.0%	7.2%	22.4%	31.2%	11.5%	22.7%	5.4%	9.1%	3.3%	11.8%	4.6%	5.1%
University Fellow	N	7,529	5,337	1,523	462	1,331	262	1,339	1,217	1,243	1,245	1,361	1,269	294	607	438	274
	V	33.1%	34.3%	32.2%	34.8%	27.0%	37.1%	32.1%	35.3%	42.4%	38.9%	53.7%	54.0%	13.9%	16.5%	33.7%	33.1%
	H	100.0%	100.0%	20.2%	8.7%	17.7%	4.9%	17.8%	22.8%	16.5%	23.3%	18.1%	23.8%	3.9%	11.4%	5.8%	5.1%
Other University	N	2,312	2,469	274	87	303	46	336	409	448	684	508	489	291	625	152	129
	V	10.2%	15.9%	5.8%	6.5%	6.1%	6.5%	8.1%	11.9%	15.3%	21.3%	20.1%	20.8%	13.7%	17.0%	11.7%	15.6%
	H	100.0%	100.0%	11.9%	3.5%	13.1%	1.9%	14.5%	16.6%	19.4%	27.7%	22.0%	19.8%	12.6%	25.3%	6.6%	5.2%
Business/Employer	N	2,924	2,331	406	113	659	77	298	332	441	542	381	327	517	768	222	172
	V	12.9%	15.0%	8.6%	8.5%	13.4%	10.9%	7.1%	9.6%	15.1%	16.9%	15.0%	13.9%	24.4%	20.9%	17.1%	20.8%
	H	100.0%	100.0%	13.9%	4.8%	22.5%	3.3%	10.2%	14.2%	15.1%	23.3%	13.0%	14.0%	17.7%	32.9%	7.6%	7.4%
Own Earnings	N	14,788	11,647	2,375	631	2,656	358	2,277	1,989	2,375	2,683	2,157	1,973	1,906	3,323	1,039	686
	V	65.1%	75.0%	50.2%	47.5%	53.9%	50.6%	54.6%	57.8%	81.1%	83.7%	85.2%	83.9%	89.9%	90.5%	79.9%	82.9%
	H	100.0%	100.0%	16.1%	5.4%	18.0%	3.1%	15.4%	17.1%	16.1%	23.0%	14.6%	16.9%	12.9%	28.5%	7.0%	5.9%
Spouse's Earnings	N	7,171	6,263	1,104	372	1,088	192	1,358	1,229	1,093	1,387	1,058	994	952	1,690	518	397
	V	31.6%	40.3%	23.3%	28.0%	22.1%	27.2%	32.6%	35.7%	37.3%	43.3%	41.8%	42.3%	44.9%	46.0%	39.8%	47.9%
	H	100.0%	100.0%	15.4%	5.9%	15.2%	3.1%	18.9%	19.6%	15.2%	22.1%	14.8%	15.9%	13.3%	27.0%	7.2%	6.3%
Family Support	N	8,358	5,453	1,496	388	1,885	204	1,425	1,085	1,341	1,416	1,162	1,111	565	951	482	298
	V	36.8%	35.1%	31.6%	29.2%	38.2%	28.9%	34.2%	31.5%	45.8%	44.2%	45.9%	47.2%	26.7%	25.9%	37.1%	36.0%
	H	100.0%	100.0%	17.9%	7.1%	22.6%	3.7%	17.0%	19.9%	16.0%	26.0%	13.9%	20.4%	6.8%	17.4%	5.8%	5.5%
Guaranteed Student Loan (Stafford)	N	5,444	4,749	718	210	582	91	921	652	1,218	1,574	1,054	981	582	964	368	277
	V	24.0%	30.6%	15.2%	15.8%	11.8%	12.9%	22.1%	18.9%	41.6%	49.1%	41.6%	41.7%	27.5%	26.3%	28.3%	33.5%
	H	100.0%	100.0%	13.2%	4.4%	10.7%	1.9%	16.9%	13.7%	22.4%	33.1%	19.4%	20.7%	10.7%	20.3%	6.8%	5.8%
Perkins Loan (NDSL)	N	1,629	1,491	149	47	155	20	226	156	467	553	350	356	169	281	112	78
	V	7.2%	9.6%	3.1%	3.5%	3.1%	2.8%	5.4%	4.5%	15.9%	17.3%	13.8%	15.1%	8.0%	7.7%	8.6%	9.4%
	H	100.0%	100.0%	9.1%	3.2%	9.5%	1.3%	13.9%	10.5%	28.7%	37.1%	21.5%	23.9%	10.4%	18.8%	6.9%	5.2%
Other Loans	N	868	857	119	29	100	24	121	116	199	273	163	165	102	186	64	64
	V	3.8%	5.5%	2.5%	2.2%	2.0%	3.4%	2.9%	3.4%	6.8%	8.5%	6.4%	7.0%	4.8%	5.1%	4.9%	7.7%
	H	100.0%	100.0%	13.7%	3.4%	11.5%	2.8%	13.9%	13.5%	22.9%	31.9%	18.8%	19.3%	11.8%	21.7%	7.4%	7.5%
Other Sources	N	576	424	88	23	95	13	109	104	86	73	93	58	49	123	56	30
	V	2.5%	2.7%	1.9%	1.7%	1.9%	1.8%	2.6%	3.0%	2.9%	2.3%	3.7%	2.5%	2.3%	3.4%	4.3%	3.6%
	H	100.0%	100.0%	15.3%	5.4%	16.5%	3.1%	18.9%	24.5%	14.9%	17.2%	16.1%	13.7%	8.5%	29.0%	9.7%	7.1%
Unduplicated Total#		22,716	15,538	4,731	1,329	4,930	707	4,170	3,443	2,929	3,204	2,533	2,352	2,120	3,671	1,300	828

NOTE: In this table a recipient counts once in each source category from which he or she received support. Since students indicate multiple sources of support, the vertical percentages sum to more than 100 percent. Data on the "primary" source of support for doctorate recipients are presented in the body of the Summary report. Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

* Excludes 384 individuals for whom sex was not reported.

★ V denotes vertical percentage; H denotes horizontal percentage.

+ Because federal support obtained through the university cannot always be determined, no distinction is made between federal and university research assistants in this table. Both types of support are grouped under "University Research Assistant." Federal loans are counted in the categories for loans.

The 4,451 Ph.D.s who did not report sources of support are omitted from this total. Percentages are based only on known responses.

Source: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-6 State of Doctoral Institution of Doctorate Recipients, by Broad Field and Sex

	Total**		Physical Sciences		Engineering		Life Sciences		Social Sciences		Humanities		Education		Prof./Other Fields	
			Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
	U.S. Total ★	24,999	17,322	5,088	1,441	5,264	747	4,487	3,669	3,241	3,613	2,774	2,572	2,367	4,079	1,459
Alabama	309	242	56	14	69	13	82	72	22	28	11	14	44	89	24	8
Alaska	17	3	10	2	1	0	5	1	1	0	0	0	0	0	0	0
Arizona	482	312	120	26	113	10	66	54	45	48	45	48	64	103	28	23
Arkansas	72	64	8	1	15	1	18	20	2	6	4	4	15	31	10	1
California	2,893	1,980	651	179	665	94	461	406	423	552	334	297	190	337	122	82
Colorado	499	311	140	37	128	16	78	70	61	60	30	40	45	70	16	15
Connecticut	343	241	85	20	42	13	66	61	57	48	65	62	18	30	9	7
Delaware	106	59	33	8	39	9	4	9	13	13	6	8	9	11	1	0
Dist. of Columbia	263	223	33	12	30	7	35	40	77	73	41	47	14	33	30	11
Florida	958	824	127	27	172	14	124	86	98	188	89	58	235	385	97	48
Georgia	496	372	80	24	133	21	104	86	47	79	59	54	43	81	30	26
Hawaii	110	66	19	4	5	1	22	13	36	23	21	13	5	10	1	2
Idaho	66	20	21	1	11	0	12	8	7	0	1	0	14	11	0	0
Illinois	1,348	872	278	65	261	39	194	177	204	172	187	156	124	186	78	60
Indiana	694	408	152	32	169	14	101	76	76	70	88	94	45	87	30	18
Iowa	392	246	73	21	85	17	99	58	32	33	42	42	45	59	15	15
Kansas	281	189	52	19	32	6	73	40	30	39	45	21	36	51	12	12
Kentucky	219	118	40	9	33	6	52	36	28	18	26	9	16	32	23	8
Louisiana	332	204	59	28	48	5	103	58	30	29	45	24	12	45	33	14
Maine	42	18	6	3	7	1	13	6	3	2	5	1	6	5	2	0
Maryland	545	423	129	39	117	16	139	141	82	92	50	65	15	56	12	8
Massachusetts	1,277	791	322	85	250	61	208	179	214	167	135	129	66	127	67	33
Michigan	875	561	177	58	242	31	152	115	96	135	79	76	76	108	52	37
Minnesota	479	368	78	29	95	9	100	101	42	51	52	48	77	103	35	27
Mississippi	204	125	25	7	20	3	39	17	22	22	11	11	46	62	38	3
Missouri	445	310	68	29	83	13	84	63	74	65	49	39	50	81	35	20
Montana	56	38	19	6	2	0	18	7	5	2	0	1	12	22	0	0
Nebraska	177	136	31	12	15	2	55	25	25	27	13	10	23	48	15	12
Nevada	23	19	9	2	3	0	2	4	1	2	3	2	5	9	0	0
New Hampshire	68	37	23	9	14	1	17	13	9	9	4	1	1	4	0	0
New Jersey	535	360	132	55	119	22	77	75	70	65	94	89	13	35	21	11
New Mexico	134	91	30	12	29	2	15	18	15	16	11	12	28	27	5	3
New York	2,069	1,524	439	109	355	52	348	276	346	381	297	340	122	223	108	76
North Carolina	581	501	92	43	125	26	170	157	78	80	65	71	32	107	18	15
North Dakota	45	26	12	0	6	0	20	5	3	5	1	0	3	16	0	0
Ohio	1,144	790	221	65	278	30	209	175	123	159	116	77	120	213	67	64
Oklahoma	272	183	45	12	47	7	36	19	32	40	44	24	45	62	17	13
Oregon	245	177	58	25	37	8	73	45	29	29	22	21	16	43	7	6
Pennsylvania	1,370	930	230	67	380	49	165	170	174	175	164	157	137	235	116	68
Puerto Rico	34	65	3	3	1	0	3	1	15	31	6	7	6	23	0	0
Rhode Island	134	95	50	19	21	1	13	14	19	28	26	31	0	0	5	2
South Carolina	240	166	49	15	34	4	62	36	22	21	24	28	34	54	15	8
South Dakota	53	41	4	0	3	0	11	4	5	9	0	1	29	27	0	0
Tennessee	400	330	52	16	81	14	75	65	55	57	35	29	67	126	33	17
Texas	1,629	1,060	317	68	405	52	290	226	150	195	147	137	162	282	146	83
Utah	231	132	31	11	41	3	26	30	38	25	3	6	24	20	8	3
Vermont	27	34	4	0	4	0	10	8	3	14	2	4	4	8	0	0
Virginia	616	476	125	44	174	30	89	89	65	93	62	49	74	136	25	27
Washington	425	310	97	38	86	8	101	86	36	50	46	52	36	57	23	19
West Virginia	86	60	9	0	27	1	13	11	11	11	3	5	23	32	0	0
Wisconsin	597	374	138	28	108	14	140	115	82	70	65	58	34	72	30	16
Wyoming	61	17	26	3	4	1	15	2	8	6	1	0	7	5	0	0

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

★Includes the 50 states, District of Columbia, and Puerto Rico. **Excludes 384 individuals for whom sex was not reported.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-7 Institutions Granting Doctorates, by Major Field, 1997

	1997 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sciences	Math and Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sci.	Psychology	Other Social Sciences	History	Eng. And Amer. Language and Lit.	Other Humanities	Education	Professional/Other/ Unknown Fields
TOTAL ALL INSTITUTIONS	42,705	1,576	2,115	882	2,001	6,052	5,717	1,394	1,102	3,487	3,430	954	1,080	3,353	6,497	3,065
ALABAMA	552	18	18	5	29	83	88	37	29	30	20	8	12	5	133	37
Alabama A&M University	17	8	0	0	0	0	0	0	4	0	0	0	0	0	0	5
Auburn University	166	3	6	0	16	42	12	6	25	14	9	6	0	1	22	4
United States Sports Academy	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Univ of Alabama-Birmingham	138	3	5	0	6	7	63	30	0	7	2	0	0	0	15	0
Univ of Alabama-Huntsville	31	3	0	3	2	23	0	0	0	0	0	0	0	0	0	0
Univ of Alabama	184	1	7	1	5	11	5	0	0	9	9	2	12	4	90	28
Univ of South Alabama	15	0	0	1	0	0	8	1	0	0	0	0	0	0	5	0
ALASKA	20	1	0	10	1	1	4	0	2	0	1	0	0	0	0	0
Univ of Alaska	20	1	0	10	1	1	4	0	2	0	1	0	0	0	0	0
ARIZONA	794	43	42	33	28	123	83	16	21	30	63	11	13	69	167	52
Arizona State Univ	279	5	22	4	10	54	20	6	0	19	20	6	7	23	54	29
Northern Arizona Univ	70	0	0	0	0	0	4	0	1	0	10	2	0	2	51	0
Univ of Arizona	445	38	20	29	18	69	59	10	20	11	33	3	6	44	62	23
ARKANSAS	136	0	8	0	1	16	22	3	13	8	0	2	4	2	46	11
Arkansas State Univ	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
U of Arkansas-Fayetteville	113	0	8	0	1	15	11	3	13	8	0	2	4	2	35	11
U of Arkansas-Little Rock	7	0	0	0	0	1	0	0	0	0	0	0	0	0	6	0
U of Arkansas-Med Sci Campus	11	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0
CALIFORNIA	4,912	228	265	117	227	762	702	111	54	561	424	132	119	381	532	297
Biola University	16	0	0	0	0	0	0	0	0	7	0	0	0	3	5	1
California Inst of Integral Studies	8	0	0	0	0	0	0	0	0	5	0	0	0	1	2	0
California Inst of Technology	173	36	28	12	10	68	17	0	0	0	2	0	0	0	0	0
Calif Sch Prof Psych-Alameda	63	0	0	0	0	0	0	0	0	61	0	0	0	0	0	2
Calif. Sch Prof Psych-Fresno	31	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0
Calif Sch Prof Psych-LA	56	0	0	0	0	0	0	0	0	54	0	0	0	0	0	2
Calif Sch Prof Psych-San Diego	78	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0
Claremont Graduate School	111	0	0	0	9	0	3	0	0	8	27	2	7	15	24	16
Fielding Institute	72	0	0	0	0	0	0	0	0	40	8	0	0	0	1	23
Fuller Theological Seminary	40	0	0	0	0	0	0	0	0	15	3	0	0	10	0	12
Golden Gate Baptist Theol Sem	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Graduate Theological Union	20	0	0	0	0	0	0	0	0	0	1	0	1	8	0	10
La Sierra Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Loma Linda Univ	18	0	0	0	0	0	0	14	3	0	0	0	0	0	0	1
Naval Postgraduate School	20	3	0	5	4	8	0	0	0	0	0	0	0	0	0	0
Pacific Grad School of Psychology	47	0	0	0	0	0	0	0	1	0	24	0	0	0	3	0
Pepperdine Univ	33	0	0	0	0	0	0	0	0	0	0	0	0	0	32	1
Rand Grad Sch of Policy Studies	8	0	0	0	0	0	0	0	0	0	0	7	0	0	0	1
Research Inst of Scripps Clinic	20	0	11	0	0	0	9	0	0	0	0	0	0	0	0	0
San Diego State Univ	31	0	1	0	0	2	7	0	0	11	0	0	0	0	10	0
School of Theology at Claremont	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Stanford University	591	34	27	15	43	185	68	0	1	12	48	14	13	53	44	34
U.S. International Univ	60	0	0	0	0	0	0	0	0	42	0	0	0	0	11	7
Univ of California-Berkeley	759	39	49	8	53	148	89	25	25	18	103	29	24	82	37	30
Univ of California-Davis	349	23	21	15	12	47	124	3	20	7	22	9	17	16	9	4
Univ of California-Irvine	219	7	20	0	17	39	52	1	0	12	26	5	8	20	0	12
Univ of California-Los Angeles	670	27	26	23	34	85	96	23	2	43	67	41	12	71	87	33
Univ of California-Riverside	124	6	8	2	6	0	31	0	6	15	19	3	10	8	10	0
Univ of California-San Diego	261	20	18	21	14	37	65	0	0	10	23	10	4	14	1	24
Univ of California-San Francisco	123	0	17	0	0	2	62	32	0	0	7	0	0	0	1	2
Univ of California-Santa Barbara	224	14	17	5	7	55	16	0	0	20	24	7	7	27	21	4
Univ of California-Santa Cruz	93	12	8	5	3	9	14	0	0	8	8	6	9	7	1	3
Univ of La Verne	45	0	0	0	0	0	0	0	0	0	0	0	0	0	45	0
Univ of the Pacific	12	0	0	0	0	0	2	2	0	0	0	0	0	0	8	0
Univ of San Diego	21	0	0	0	0	0	0	12	0	0	0	0	0	0	9	0
Univ of San Francisco	91	0	0	0	0	0	0	0	0	0	0	0	0	0	91	0
Univ of Santa Clara	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Univ of Southern California	396	7	14	6	15	74	33	9	0	28	29	6	7	43	80	45
Wright Institute, The	22	0	0	0	0	0	0	0	0	12	0	0	0	0	0	10
COLORADO	812	40	44	52	41	144	93	31	24	53	69	12	10	49	115	35
Colorado School of Mines	52	3	2	17	5	25	0	0	0	0	0	0	0	0	0	0
Colorado State Univ	202	9	22	16	10	35	25	4	24	10	19	0	0	0	23	5
Univ of Colorado	399	27	18	19	18	84	61	24	0	18	43	10	5	32	22	18
Univ of Denver	78	1	1	0	3	0	3	0	0	11	7	2	5	10	25	10
Univ of Northern Colorado	81	0	1	0	5	0	4	3	0	14	0	0	7	45	2	
CONNECTICUT	590	24	36	10	35	56	107	11	11	38	68	25	19	83	48	19
Univ of Connecticut	251	6	13	5	9	38	38	4	4	30	23	5	5	11	48	12
Univ of New Haven	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Wesleyan Univ	11	1	3	0	1	0	3	0	0	0	0	0	0	3	0	0
Yale Univ	326	17	20	5	25	18	66	7	7	8	45	20	14	69	0	5

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

Source: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

APPENDIX TABLE A-7 Institutions Granting Doctorates, by Major Field, 1997

	1997 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sciences	Math and Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sci.	Psychology	Other Social Sciences	History	Eng. And Amer. Language and Lit.	Other Humanities	Education	Professional/Other/ Unknown Fields
DELAWARE	165	8	11	10	12	48	8	0	5	10	16	2	8	4	20	3
Univ of Delaware	161	8	11	10	12	48	8	0	5	10	16	2	8	4	18	1
Wilmington College	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
DISTRICT OF COLUMBIA	493	10	16	1	19	37	63	12	0	55	100	22	11	56	47	44
American Univ	47	4	0	0	1	0	0	0	0	5	30	1	0	0	5	1
Catholic Univ of America	97	3	0	0	0	9	3	4	0	15	13	3	3	29	3	12
Gallaudet Univ	6	0	0	0	0	0	0	0	0	4	0	0	0	0	2	0
George Washington Univ	169	1	3	1	13	26	20	3	0	14	19	8	8	2	34	17
Georgetown Univ	94	0	8	0	0	0	28	0	0	0	24	9	0	24	0	1
Howard Univ	80	2	5	0	5	2	12	5	0	17	14	1	0	1	3	13
FLORIDA	1,808	29	39	37	50	187	127	29	54	225	69	26	43	81	628	184
Barry Univ	13	0	0	0	0	0	0	0	0	1	1	0	0	0	5	6
Caribbean Ctr Adv Stud-Miami	29	0	0	0	0	0	0	0	0	27	0	0	0	2	0	0
Florida A&M Univ	4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
Florida Atlantic Univ	52	1	0	0	4	16	1	0	0	3	0	0	0	0	17	10
Florida Inst of Technology	30	0	2	1	4	12	2	0	0	1	0	0	0	0	8	0
Florida International Univ	52	0	0	0	1	1	3	0	0	2	8	0	0	0	30	7
Florida State Univ	312	8	4	20	9	6	11	1	0	22	17	19	25	49	68	53
Nova Southeastern Univ	539	0	0	1	10	0	2	0	0	105	1	0	0	12	351	57
Univ of Central Florida	75	3	0	0	1	28	0	0	0	1	0	0	0	0	39	3
Univ of Florida	425	12	28	1	11	96	65	19	54	29	31	5	8	12	40	14
Univ of Miami	99	5	1	8	3	9	16	6	0	14	10	2	3	5	13	4
Univ of Sarasota	51	0	0	0	0	0	0	0	0	1	0	0	0	0	24	26
Univ of South Florida	127	0	4	6	7	19	23	3	0	19	1	0	7	1	33	4
GEORGIA	874	21	47	12	25	155	115	39	36	87	39	14	29	73	125	57
Clark Atlanta Univ	26	0	0	0	0	0	0	0	0	4	1	0	10	11	0	
Emory University	148	1	18	0	4	0	38	3	0	16	9	6	11	36	2	4
Georgia Inst of Technology	224	18	13	9	15	151	5	1	0	5	1	0	0	1	0	5
Georgia Southern Univ	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Georgia State Univ	116	0	4	0	0	0	9	5	0	20	13	3	6	2	36	18
Institute of Paper Sci & Tech	7	0	0	0	0	3	0	0	4	0	0	0	0	0	0	0
Medical College of Georgia	17	0	0	0	0	0	7	10	0	0	0	0	0	0	0	0
Mercer Univ-Southern Schl of Phar	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Univ of Georgia	328	2	12	3	6	1	55	19	32	46	12	4	12	24	70	30
HAWAII	176	7	4	9	3	6	22	4	9	11	48	7	3	24	15	4
Univ of Hawaii at Manoa	176	7	4	9	3	6	22	4	9	11	48	7	3	24	15	4
IDAHO	86	4	11	0	7	11	10	3	7	0	7	1	0	0	25	0
Idaho State Univ	18	0	0	0	2	1	3	2	0	0	4	0	0	0	6	0
Univ of Idaho	68	4	11	0	5	10	7	1	7	0	3	1	0	0	19	0
ILLINOIS	2,245	94	108	17	128	303	259	77	36	167	212	68	62	216	316	182
Depaul Univ	19	0	0	0	0	0	0	0	0	15	0	0	3	0	1	
Finch U of Hlth Sci-Chicago Med	14	0	0	0	0	0	7	1	0	6	0	0	0	0	0	0
Illinois Inst of Technology	64	2	0	0	14	32	1	0	0	14	0	0	0	0	0	1
Illinois State Univ-Normal	46	0	0	0	0	0	5	0	0	0	2	1	5	3	30	0
Inst for Clinical Social Work	10	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8
Loyola Univ of Chicago	104	0	7	0	0	0	17	5	0	22	3	1	4	10	30	5
Lutheran School of Theol-Chicago	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Northern Illinois Univ	111	0	5	0	3	0	4	0	0	7	7	2	5	1	51	26
Northwestern Univ	354	14	22	1	15	78	40	4	0	21	37	8	8	49	11	46
Roosevelt Univ	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
Rush Univ	15	0	0	0	0	0	3	8	0	0	0	0	0	3	0	1
Southern Ill Univ-Carbondale	159	1	3	2	3	5	8	5	3	17	18	3	11	13	51	16
Southern Ill Univ-Edwardsville	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Univ of Chicago	361	37	17	5	21	2	49	0	0	18	77	30	13	60	11	21
Univ of Illinois-Chicago	236	5	12	0	17	22	53	50	0	13	13	9	4	5	23	10
Univ of Illinois-Urbana/Champaign	736	35	42	9	55	164	72	4	33	34	55	14	12	68	93	46
INDIANA	1,109	42	77	12	55	183	111	31	35	69	78	28	31	124	133	100
Ball State Univ	48	0	0	0	0	0	1	0	0	13	0	0	1	11	21	1
Indiana State Univ	34	0	0	0	0	0	4	0	0	11	1	0	0	0	18	0
Indiana Univ-Bloomington	394	13	24	7	16	0	47	12	0	14	46	22	11	85	75	22
Indiana Univ-Purdue-Indianapolis	7	0	0	0	0	0	0	2	0	0	0	0	0	1	0	4
Purdue Univ	509	17	43	5	31	149	51	17	35	25	18	3	11	18	19	67
Univ of Notre Dame	117	12	10	0	8	34	8	0	0	6	13	3	8	9	0	6
IOWA	652	18	44	5	27	104	99	33	30	37	30	6	17	62	106	34
Drake Univ	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
Iowa State Univ	254	6	27	3	12	50	63	3	28	9	15	2	0	1	33	2
Maharishi International Univ	16	3	0	0	0	0	2	1	0	2	0	0	0	2	1	5
Univ of Iowa	364	9	17	2	15	50	34	29	2	26	15	4	17	59	59	26
Univ of Northern Iowa	9	0	0	0	0	4	0	0	0	0	0	0	0	0	4	1

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APPENDIX TABLE A-7 Institutions Granting Doctorates, by Major Field, 1997

	1997 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sciences	Math and Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sci.	Psychology	Other Social Sciences	History	Eng. And Amer. Language and Lit.	Other Humanities	Education	Professional/Other/ Unknown Fields
KANSAS	470	17	35	4	15	38	53	12	48	39	30	15	11	40	87	26
Kansas State Univ	174	10	9	0	6	11	20	0	48	8	15	3	0	4	33	7
Univ of Kansas	265	7	24	4	6	11	33	9	0	29	15	12	11	36	49	19
Wichita State Univ	31	0	2	0	3	16	0	3	0	2	0	0	0	0	5	0
KENTUCKY	338	4	23	1	21	39	65	11	12	22	25	7	6	22	48	32
Southern Bapt Theol Seminary	25	0	0	0	0	0	0	0	0	1	1	1	0	15	2	5
Spalding Univ	11	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1
Univ of Kentucky	240	4	14	1	20	30	46	11	12	12	20	6	5	5	29	25
Univ of Louisville	62	0	9	0	1	9	19	0	0	9	4	0	1	2	7	1
LOUISIANA	537	13	26	11	37	53	92	44	26	23	36	8	19	42	57	50
Grambling State Univ	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
Louisiana St U and A&M Col-Baton Rouge	232	12	12	11	19	23	24	12	26	13	15	3	9	13	21	19
Louisiana St U Med Schl-New Orleans	25	0	0	0	0	0	15	10	0	0	0	0	0	0	0	0
Louisiana St U Med Schl-Shreveport	9	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
Louisiana Tech Univ	10	0	1	0	0	4	0	0	0	0	0	0	0	0	0	5
New Orleans Bapt Theol Seminary	34	0	0	0	0	0	0	0	0	2	0	1	0	15	2	14
Northeast Louisiana Univ	13	0	1	0	0	0	3	9	0	0	0	0	0	0	0	0
Southern Univ and A&M Univ-Baton Rouge	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Tulane Univ of Louisiana	128	0	4	0	8	24	36	13	0	7	13	4	3	7	0	9
Univ of New Orleans	44	1	8	0	0	0	0	0	0	1	7	0	0	0	25	2
Univ of Southwestern Louisiana	32	0	0	0	10	2	5	0	0	0	1	0	7	7	0	0
MAINE	60	5	2	2	0	8	14	0	5	5	0	5	0	1	11	2
Univ of Maine	60	5	2	2	0	8	14	0	5	5	0	5	0	1	11	2
MARYLAND	987	53	34	22	60	134	172	103	13	78	97	19	18	80	73	31
Johns Hopkins Univ	331	14	9	10	12	40	91	71	0	8	37	12	6	14	4	3
Loyola College in Maryland	7	0	0	0	0	0	0	0	0	6	0	0	0	0	0	1
Morgan State Univ	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Peabody Inst of Johns Hopkins	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0
Uniformed Serv U of Hlth Sci	6	0	0	0	0	0	2	0	0	4	0	0	0	0	0	0
Univ of Maryland-Baltimore County	58	3	5	0	10	6	9	0	0	14	9	0	0	1	0	1
Univ of Maryland-College Park	505	36	17	12	38	88	40	10	13	46	50	7	12	53	64	19
Univ of Maryland-Baltimore Prof Schs	63	0	3	0	0	0	30	22	0	0	1	0	0	0	0	7
MASSACHUSETTS	2,115	136	103	52	120	317	323	69	10	103	285	59	44	165	196	133
Boston College	105	5	4	0	0	0	8	2	0	15	18	7	1	7	25	13
Boston Univ	261	14	7	5	7	21	52	15	1	21	22	7	2	31	23	33
Brandeis Univ	102	4	8	0	6	1	18	2	0	2	32	11	7	10	0	1
Clark Univ	32	3	0	1	1	0	2	1	0	1	21	0	0	0	2	0
Harvard Univ	593	26	24	7	22	10	133	32	0	11	97	27	14	81	66	43
Mass Coll Pharm & Health Sci	3	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0
Mass Inst of Technology	485	49	27	36	41	205	41	0	0	7	48	2	0	7	0	22
New England Conserv of Music	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Northeastern Univ	68	8	3	0	8	20	5	6	0	6	9	0	2	0	1	0
Simmons College	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Smith College	10	0	0	0	0	0	0	0	0	0	0	1	0	0	0	8
Springfield College	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Tufts Univ	70	3	6	0	2	7	23	0	1	8	10	0	5	3	0	2
Univ of Massachusetts-Amherst	281	6	14	3	23	32	27	7	8	29	20	5	13	24	63	7
Univ of Massachusetts-Boston	10	0	0	0	0	0	2	0	0	3	5	0	0	0	0	0
Univ of Massachusetts-Lowell	67	16	9	0	9	12	5	2	0	0	0	0	0	0	14	0
Univ of Massachussets-Worcester	7	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
Worcester Polytechnic Inst	12	2	0	0	1	9	0	0	0	0	0	0	0	0	0	0
MICHIGAN	1,447	61	78	22	78	273	163	60	44	123	109	24	26	107	185	94
Andrews Univ	26	0	0	0	1	0	1	0	0	5	0	0	0	6	9	4
Eastern Michigan Univ	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Michigan State Univ	417	16	23	4	24	47	61	4	41	36	28	1	12	24	52	44
Michigan Tech Univ	46	7	1	2	0	24	6	0	1	0	0	0	2	0	0	1
Oakland Univ	8	0	0	0	3	1	1	0	0	0	0	0	0	0	0	3
Univ of Detroit Mercy	18	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0
Univ of Michigan	642	32	33	13	35	170	57	37	1	31	63	22	11	70	36	31
Wayne State Univ	232	4	21	0	10	31	37	19	1	18	16	1	1	5	60	8
Western Michigan Univ	54	2	0	3	5	0	0	0	0	15	2	0	0	0	21	6
MINNESOTA	862	16	48	9	35	106	99	57	48	54	40	20	12	69	186	63
Luther Seminary	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4
Mayo Graduate School	20	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Univ of Minnesota-Minneapolis	708	16	48	9	35	105	79	48	48	39	39	20	12	66	111	33
Univ of St Thomas	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0
Walden Univ	107	0	0	0	0	1	0	9	0	15	1	0	0	2	53	26

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MISSISSIPPI	332	4	18	4	6	23	23	5	28	40	4	8	7	7	110	45
Delta State Univ	4	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1
Jackson State Univ	9	0	0	3	0	0	0	0	0	0	0	0	0	0	5	1
Mississippi State Univ	112	0	4	0	4	16	12	1	28	2	3	3	0	1	29	9
Reformed Theological Seminary	7	0	0	0	0	0	0	0	0	0	1	0	0	2	0	4
Univ of Mississippi	97	4	3	0	1	7	2	2	0	13	0	3	3	1	38	20
Univ of Mississippi-Med Ctr	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
Univ of Southern Mississippi	98	0	11	1	1	0	4	2	0	25	0	2	4	3	35	10
MISSOURI	766	21	43	4	29	96	116	14	19	87	54	17	12	60	131	63
Concordia Seminary	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Midwest Baptist Theol Sem	15	0	0	0	0	0	0	0	0	0	0	0	0	4	0	11
St. Louis Univ	135	0	0	3	1	0	18	9	0	18	6	2	2	8	57	11
Univ of Missouri-Columbia	257	3	12	0	10	29	37	3	19	22	27	5	6	14	59	11
Univ of Missouri-Kansas City	91	0	4	0	2	0	2	1	0	29	1	1	0	18	9	24
Univ of Missouri-Rolla	60	4	6	0	4	46	0	0	0	0	0	0	0	0	0	0
Univ of Missouri-St Louis	29	2	7	0	0	0	4	0	0	7	3	0	0	0	6	0
Washington Univ	178	12	14	1	12	21	55	1	0	11	17	9	4	15	0	6
MONTANA	96	10	11	1	3	2	16	0	9	7	0	0	0	1	36	0
Montana State Univ	67	10	10	0	1	1	10	0	5	0	0	0	0	1	29	0
Univ of Montana	29	0	1	1	2	1	6	0	4	7	0	0	0	0	7	0
NEBRASKA	314	4	22	4	13	17	38	14	29	25	27	5	8	10	71	27
Creighton Univ	3	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0
Univ of Nebraska-Lincoln	275	4	20	4	13	17	17	4	29	24	26	5	8	9	68	27
Univ of Nebraska-Med Center	32	0	2	0	0	0	19	10	0	1	0	0	0	0	0	0
Univ of Nebraska-Omaha	4	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0
NEVADA	44	3	0	9	1	3	5	1	0	0	3	0	4	1	14	0
Univ of Nevada-Las Vegas	25	1	0	0	1	2	5	0	0	0	2	0	1	0	13	0
Univ of Nevada-Reno	19	2	0	9	0	1	0	1	0	0	1	0	3	1	1	0
NEW HAMPSHIRE	105	10	6	7	9	15	28	1	1	12	6	4	0	1	5	0
Dartmouth College	45	7	4	3	4	6	15	1	0	5	0	0	0	0	0	0
Univ of New Hampshire	60	3	2	4	5	9	13	0	1	7	6	4	0	1	5	0
NEW JERSEY	903	49	47	27	67	142	128	7	17	57	78	37	30	117	48	52
Drew Univ	27	0	0	0	0	0	0	0	0	1	0	1	2	19	0	4
Farleigh Dickinson Univ	16	0	0	0	0	0	0	0	0	15	0	0	0	0	0	1
New Jersey Inst of Technology	42	0	2	3	7	29	0	0	0	0	0	0	0	0	1	0
Princeton Theol Seminary	17	0	0	0	0	0	0	0	0	0	0	0	1	0	9	1
Princeton Univ	293	27	19	11	26	47	22	0	0	8	47	21	11	53	0	1
Rutgers St Univ-New Brunswick	391	17	16	13	27	52	77	5	17	23	27	14	17	35	35	16
Rutgers St Univ-Newark	29	0	2	0	1	0	10	1	0	1	4	0	0	0	0	10
Seton Hall Univ	35	0	7	0	0	0	0	0	0	7	0	0	0	0	11	10
Stevens Inst of Technology	32	5	1	0	6	14	0	0	0	2	0	0	0	1	0	3
Univ of Med & Dent of NJ	21	0	0	0	0	0	19	1	0	0	0	0	0	0	0	1
NEW MEXICO	228	20	11	5	7	32	24	3	7	14	17	3	5	15	55	10
New Mexico Inst of Mining & Tech	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
New Mexico State Univ	62	7	2	0	3	13	7	0	6	5	1	0	0	1	11	6
Univ of New Mexico	164	13	9	4	3	19	17	3	1	9	16	3	5	14	44	4
NEW YORK	3,616	149	146	65	189	410	496	71	62	346	388	88	125	426	345	310
Adelphi Univ	44	0	0	0	3	0	0	9	0	27	0	0	0	0	1	4
Albany Medical College	15	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0
Alfred Univ	8	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0
City U of NY-Grad Sch/U Ctr	312	7	13	3	19	16	46	3	0	49	63	4	19	53	1	16
Clarkson Univ	24	1	3	0	1	18	1	0	0	0	0	0	0	0	0	0
Columbia Univ	452	20	17	15	21	35	54	15	0	37	80	31	19	72	12	24
Columbia Univ-Teachers College	124	0	0	0	0	0	0	1	0	0	0	0	0	2	110	11
Cornell Univ	485	28	29	11	26	93	67	6	54	11	55	11	14	40	17	23
Cornell Univ Medical Campus	33	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0
Fordham Univ	124	0	0	0	0	0	5	0	0	31	16	5	2	6	48	11
Hofstra Univ	37	0	0	0	0	0	0	0	0	20	0	0	0	0	16	1
Jewish Theol Sem of America	7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6
The Juilliard School	7	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0
Long Island Univ-Brooklyn Campus	14	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0
Manhattan School of Music	12	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0
New School for Social Research	55	0	0	0	1	0	0	0	0	31	17	0	0	6	0	0
New York Medical College	8	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
New York Univ	369	3	9	1	16	4	46	17	0	20	29	12	20	74	35	83
Pace Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Polytechnic Univ	36	0	5	0	3	28	0	0	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Inst	128	10	8	1	16	75	2	1	0	0	3	0	0	5	0	7
Rockefeller Univ	21	1	1	0	0	0	19	0	0	0	0	0	0	0	0	0

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NEW YORK (continued)																
St Johns Univ-Queens	37	0	0	0	0	0	6	1	0	20	0	5	0	0	4	1
State Univ of NY-Albany	135	5	1	3	11	1	8	2	0	17	26	0	4	13	27	17
State Univ of NY-Binghamton	88	0	2	4	11	13	5	0	0	8	27	3	7	6	1	1
State Univ of NY-Buffalo	316	8	18	4	13	58	42	10	0	22	21	5	18	33	53	11
State Univ of NY-Stony Brook	266	32	21	18	29	18	42	2	1	21	12	6	11	52	0	1
SUNY Coll-Environ Sci & Forestry	26	0	5	2	0	4	6	0	7	0	1	0	0	0	0	1
SUNY College of Optometry	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
SUNY-Hlth Sci Ctr-Brooklyn	12	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
SUNY-Hlth Sci Ctr-Syracuse	11	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0
Syracuse Univ	162	5	0	1	8	18	3	1	0	8	19	2	3	9	12	73
Union College	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Union Theol Seminary	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Univ of Rochester	206	29	14	2	11	21	36	3	0	9	19	4	8	35	8	7
Yeshiva Univ	30	0	0	0	0	0	29	0	0	1	0	0	0	0	0	0
NORTH CAROLINA	1,082	21	52	23	39	151	241	48	38	60	98	20	38	78	139	36
Duke Univ	263	7	11	7	11	48	70	1	1	9	36	8	11	30	0	13
East Carolina Univ Sch of Med	11	0	0	0	0	0	6	0	0	0	0	0	0	0	3	2
North Carolina St U-Raleigh	312	6	6	7	12	97	47	3	37	9	18	0	0	0	68	2
U of N Carolina-Chapel Hill	388	6	34	9	16	6	100	39	0	28	43	12	22	33	22	18
U of N Carolina-Greensboro	88	0	0	0	0	0	1	5	0	14	1	0	5	15	46	1
Wake Forest Univ	20	2	1	0	0	0	17	0	0	0	0	0	0	0	0	0
NORTH DAKOTA	71	1	7	0	4	6	7	1	17	7	1	0	0	1	19	0
North Dakota State Univ	39	0	7	0	4	5	5	1	17	0	0	0	0	0	0	0
Univ of North Dakota	32	1	0	0	0	1	2	0	0	7	1	0	0	1	19	0
OHIO	1,937	75	132	15	64	310	292	66	26	173	110	34	48	111	333	148
Air Force Inst of Technology	34	9	0	0	2	22	0	0	0	0	0	0	0	0	1	0
Bowling Green State Univ	73	0	9	0	4	0	4	0	0	14	4	4	7	10	9	8
Case Western Reserve Univ	199	6	14	0	7	56	46	16	0	10	8	2	2	7	1	24
Cleveland State Univ	35	0	1	0	0	4	2	0	0	0	2	0	0	1	18	7
Hebrew Union College	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Kent State Univ	166	5	3	0	5	0	19	4	0	30	9	2	7	4	50	28
Medical College of Ohio-Toledo	27	0	0	0	0	0	26	1	0	0	0	0	0	0	0	0
Miami Univ	56	0	10	1	0	0	7	0	0	7	4	5	6	2	14	0
Ohio State Univ	708	29	37	11	35	92	115	30	26	44	62	14	17	51	103	42
Ohio Univ	116	11	6	0	5	4	10	1	0	21	0	2	1	5	34	16
Univ of Akron	104	4	33	0	0	26	3	0	0	15	5	0	0	0	18	0
Univ of Cincinnati	297	6	16	3	5	73	47	9	0	15	16	4	4	28	51	20
Univ of Dayton	30	1	0	0	1	16	2	0	0	0	0	0	0	0	10	0
Univ of Toledo	76	4	3	0	0	16	2	5	0	16	0	1	4	0	24	1
Wright State Univ	12	0	0	0	0	1	9	0	0	0	0	0	0	0	0	2
Youngstown State	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
OKLAHOMA	472	9	24	10	14	54	40	4	11	43	29	7	11	59	113	44
Oklahoma State Univ	238	5	9	3	2	17	17	0	11	21	10	5	6	37	75	20
Univ of Oklahoma	207	4	15	7	12	24	22	4	0	13	19	2	3	21	37	24
Univ of Tulsa	27	0	0	0	0	13	1	0	0	9	0	0	2	1	1	0
OREGON	428	20	23	19	22	47	69	22	29	22	37	7	13	23	59	16
Oregon Grad Inst of Sci & Tech	24	1	1	3	4	12	3	0	0	0	0	0	0	0	0	0
Oregon Health Sciences Univ	25	0	0	0	0	0	16	5	0	1	1	0	0	0	1	1
Oregon State Univ	179	8	16	9	10	27	27	10	29	2	9	1	0	1	24	6
Portland State Univ	34	1	1	2	0	8	4	0	0	0	7	0	0	0	9	2
Univ of Oregon	166	10	5	5	8	0	19	7	0	19	20	6	13	22	25	7
PENNSYLVANIA	2,313	56	98	29	116	431	255	72	10	156	194	60	66	196	374	200
Allegheny Univ. of Health Sciences	32	0	0	0	0	0	16	3	0	13	0	0	0	0	0	0
Bryn Mawr College	20	0	3	1	2	0	0	0	0	2	2	0	0	5	0	5
Carnegie Mellon Univ	196	5	4	1	40	83	11	1	0	6	11	9	1	5	0	19
Drexel Univ	63	4	3	3	2	34	3	0	0	5	0	0	0	0	0	9
Duquesne Univ	30	0	2	0	0	0	1	3	0	6	0	0	4	7	1	6
Indiana Univ of Pennsylvania	53	0	0	0	0	0	0	0	0	0	6	0	22	13	12	0
Lehigh Univ	107	3	12	2	7	43	6	0	0	10	2	1	5	0	14	2
Pennsylvania State Univ	542	13	31	17	21	160	44	12	10	26	43	5	6	28	92	34
Philadelphia Coll. of Pharmacy & Sci.	8	0	1	0	0	0	4	3	0	0	0	0	0	0	0	0
Temple Univ	307	2	3	0	4	4	32	5	0	54	26	10	10	32	94	31
Thomas Jefferson Univ	30	0	0	0	0	0	29	0	0	0	0	0	0	0	0	1
Univ of Pennsylvania	441	17	17	2	25	52	64	16	0	14	53	27	16	57	45	36
Univ of Pittsburgh	424	12	20	3	15	55	45	24	0	20	51	8	2	45	74	50
Villanova Univ	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
Westminster Theol Seminary	8	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
Widener Univ	47	0	0	0	0	0	0	5	0	0	0	0	0	0	42	0

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Source: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

APPENDIX TABLE A-7 Institutions Granting Doctorates, by Major Field, 1997

	1997 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sciences	Math and Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sci.	Psychology	Other Social Sciences	History	Eng. And Amer. Language and Lit.	Other Humanities	Education	Professional/Other/ Unknown Fields
PUERTO RICO	99	0	5	1	0	1	4	0	0	46	0	5	0	8	29	0
Caribbean Ctr for Adv Studies	40	0	0	0	0	0	0	0	0	35	0	0	0	4	1	0
Inter Amer U PR-Metro Campus	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
Univ of Puerto Rico - Rio Piedras	42	0	5	0	0	0	3	0	0	11	0	5	0	4	14	0
Univ of Puerto Rico-Mayaguez	3	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0
RHODE ISLAND	229	14	19	19	17	22	17	5	5	19	28	10	5	42	0	7
Brown Univ	148	12	12	6	14	10	13	1	0	8	26	8	1	37	0	0
Providence College	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Salve Regina Univ	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
Univ of Rhode Island	75	2	7	13	3	12	4	4	5	11	2	0	4	1	0	7
SOUTH CAROLINA	406	10	26	11	17	38	53	29	16	21	22	8	17	27	88	23
Clemson University	99	7	6	1	4	24	13	0	16	0	2	0	0	0	18	8
Medical Univ of South Carolina	26	0	2	0	1	2	17	4	0	0	0	0	0	0	0	0
South Carolina State Univ	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Univ of South Carolina	274	3	18	10	12	12	23	25	0	21	20	8	17	27	63	15
SOUTH DAKOTA	94	0	2	2	0	3	6	0	9	7	7	0	0	1	56	1
S Dakota Sch of Mines & Tech	6	0	0	2	0	3	0	0	0	0	0	0	0	0	0	1
South Dakota State Univ	21	0	2	0	0	0	3	0	9	0	7	0	0	0	0	0
Univ of South Dakota	67	0	0	0	0	0	3	0	0	7	0	0	0	1	56	0
TENNESSEE	735	15	27	5	22	96	103	28	10	69	44	14	18	32	194	58
East Tennessee State Univ	26	0	0	0	0	0	2	0	0	0	0	0	0	0	18	6
Meharry Medical College	9	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
Mid-America Baptist Theol Sem	5	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2
Middle Tennessee State Univ	10	0	2	0	0	0	0	0	0	0	3	0	1	0	4	0
Tennessee State Univ	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Tennessee Technological Univ	11	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0
Univ of Memphis	113	0	2	1	6	8	5	1	0	25	2	1	0	5	40	17
Univ of Tennessee-Knoxville	292	10	14	4	11	41	31	6	10	34	21	7	6	3	68	26
Univ of Tennessee-Memphis	30	0	1	0	0	0	16	12	0	0	0	0	0	0	0	1
Vanderbilt Univ	214	5	8	0	5	36	40	9	0	10	18	6	11	21	39	6
TEXAS	2,694	89	108	67	121	458	353	96	68	186	162	40	63	181	444	258
Baylor College of Medicine	48	0	0	0	0	0	47	1	0	0	0	0	0	0	0	0
Baylor Univ	31	1	4	2	2	0	1	0	0	1	0	0	0	3	17	0
Dallas Theological Seminary	7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6
Lamar Univ	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Rice Univ	116	13	15	1	18	24	8	0	0	8	10	3	7	9	0	0
St. Mary's Univ	10	0	0	0	0	0	0	0	0	4	1	0	0	0	1	4
Sam Houston State Univ	7	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0
Southern Methodist Univ	43	0	0	2	8	18	1	0	0	3	8	0	0	1	0	2
Southwestern Baptist Theol Sem	43	0	0	0	0	0	0	0	0	0	0	1	0	12	3	27
Stephen F Austin St Univ	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Texas A&M Univ-College Station	544	11	29	27	26	122	78	9	55	25	34	4	10	0	62	52
Texas A&M Univ-Commerce	44	0	0	0	0	0	0	0	0	5	0	0	0	0	39	0
Texas A&M Univ-Kingsville	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Texas Christian Univ	21	2	0	0	0	0	0	0	0	8	0	6	5	0	0	0
Texas Southern Univ	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0
Texas Tech Univ	173	4	7	4	8	19	15	0	9	21	13	2	8	15	32	16
Texas Woman's Univ	78	0	0	0	0	0	6	23	1	18	2	0	2	5	14	7
Univ of Dallas	3	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0
Univ of Houston	188	4	12	1	10	37	11	0	0	10	9	6	3	4	61	20
Univ of North Texas	183	9	6	0	4	0	3	0	0	27	14	3	15	5	68	29
Univ of North Texas-Hlth Sci Ctr	7	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
Univ of St. Thomas	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Univ of Texas-Arlington	96	1	2	1	9	38	1	0	0	3	2	1	1	5	1	31
Univ of Texas-Austin	787	36	30	17	32	193	46	29	1	39	54	12	11	113	119	55
Univ of Texas-Dallas	48	5	3	7	4	1	5	0	0	2	7	2	1	3	1	7
Univ of Texas-El Paso	6	0	0	3	0	2	0	0	0	1	0	0	0	0	0	0
U Tex-Hlth Sci Ctr-Houston	76	1	0	2	0	0	42	28	0	0	0	0	0	0	1	2
U Tex-Hlth Sci Ctr-San Antonio	24	1	0	0	0	0	19	4	0	0	0	0	0	0	0	0
U Tex-Med Branch-Galveston	27	0	0	0	0	0	23	2	0	0	0	0	0	2	0	0
U Tex-Southwestern Med Ctr	53	1	0	0	0	1	40	0	0	11	0	0	0	0	0	0
UTAH	385	6	18	12	7	44	39	11	6	43	20	3	0	6	44	126
Brigham Young Univ	89	2	5	2	1	10	5	0	0	29	4	1	0	2	28	0
Univ of Utah	222	3	9	8	5	21	19	11	0	4	9	2	0	4	4	123
Utah State Univ	74	1	4	2	1	13	15	0	6	10	7	0	0	0	12	3
VERMONT	62	0	3	0	1	4	15	1	2	17	0	0	0	6	13	0
Middlebury College	7	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0
Univ of Vermont	55	0	3	0	1	4	15	1	2	17	0	0	0	0	12	0

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VIRGINIA	1,112	32	36	27	80	210	114	37	31	96	64	28	32	51	212	62
College of William & Mary	56	10	2	8	3	4	2	0	1	1	0	4	0	4	17	0
George Mason Univ	126	1	1	3	25	10	3	9	0	23	17	0	0	0	29	5
Old Dominion Univ	61	1	0	3	8	16	7	0	0	12	11	0	0	0	1	2
Regent Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Union Theol Seminary	5	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1
Univ of Virginia	365	11	11	7	22	58	39	10	0	28	24	24	32	41	53	5
Virginia Commonwealth Univ & Med Coll	97	0	4	1	1	1	36	15	0	9	2	0	0	0	9	19
Virginia Polytech Inst & St Univ	400	9	18	5	21	121	27	3	30	23	10	0	0	1	103	29
WASHINGTON	737	21	38	33	43	94	127	32	28	35	52	11	31	57	93	42
Gonzaga Univ	21	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1
Seattle Pacific Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Seattle Univ	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Univ of Washington	526	17	27	27	34	71	92	30	13	22	38	9	22	56	36	32
Washington State Univ	173	4	11	6	9	23	35	2	15	13	14	2	9	1	20	9
WEST VIRGINIA	146	5	3	1	0	28	19	5	0	18	4	2	4	2	55	0
Marshall Univer	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
West Virginia Univ	141	5	3	1	0	28	14	5	0	18	4	2	4	2	55	0
WISCONSIN	980	35	61	21	49	123	187	27	44	45	109	21	26	79	106	47
Marquette Univ	75	0	7	0	2	9	6	0	0	6	0	4	5	15	14	7
Medical College of Wisconsin	18	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0
Univ of Wisconsin-Madison	786	30	49	20	43	105	155	21	44	31	93	17	11	57	80	30
Univ of Wisconsin-Milwaukee	101	5	5	1	4	9	8	6	0	8	16	0	10	7	12	10
WYOMING	79	5	10	8	7	5	8	1	8	8	6	1	0	0	12	0
Univ of Wyoming	79	5	10	8	7	5	8	1	8	8	6	1	0	0	12	0

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APPENDIX TABLE A-7 Institutions Granting Doctorates, by Major Field, 1997

Top 50 Doctorate-Granting Institutions, 1997

1. University of Texas-Austin	787	26. University of Colorado	399
2. University of Wisconsin-Madison	786	27. University of Southern California	396
3. University of California-Berkeley	759	28. Indiana University-Bloomington	394
4. University of Illinois-Urbana/Champaign	736	29. Rutgers St University-New Brunswick	391
5. Ohio State University	708	30. U of N Carolina-Chapel Hill	388
5. University of Minnesota-Minneapolis	708	31. New York University	369
7. University of California-Los Angeles	670	32. University of Virginia	365
8. University of Michigan	642	33. University of Iowa	364
9. Harvard University	593	34. University of Chicago	361
10. Stanford University	591	35. Northwestern University	354
11. Texas A&M University-College Station	544	36. University of California-Davis	349
12. Pennsylvania State University	542	37. Johns Hopkins University	331
13. Nova Southeastern University	539	38. University of Georgia	328
14. University of Washington	526	39. Yale University	326
15. Purdue University	509	40. State University of NY-Buffalo	316
16. University of Maryland-College Park	505	41. City U of NY-Grad Sch/U Ctr	312
17. Cornell University	485	41. Florida State University	312
17. Massachusetts Institute of Technology	485	41. North Carolina St U-Raleigh	312
19. Columbia University	452	44. Temple University	307
20. University of Arizona	445	45. University of Cincinnati	297
21. University of Pennsylvania	441	46. Princeton University	293
22. University of Florida	425	47. University of Tennessee-Knoxville	292
23. University of Pittsburgh	424	48. University of Massachusetts-Amherst	281
24. Michigan State University	417	49. Arizona State University	279
25. Virginia Polytech Inst & St University	400	50. University of Nebraska-Lincoln	275

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